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OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 09:31:34 ; Search time 523.667 Seconds

(without alignments)
1500.527 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27

Sequence: 1 gctcgttgatattgaagaacaagtg 27

Scoring table: IDENTITY_NUC
Gapo: 10.0, Gapext 1.0

Searched: 2054540 seqs, 14551402878 residues 4109280

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing:

Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl:*

1: gb_ba:*

2: gb_htg:*

3: gb_in:*

4: gb_cm:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

10: gb_ro:*

11: gb_sts:*

12: gb_sy:*

13: gb_vl:*

14: gb_vl:*

15: em_ba:*

16: em_fun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_om:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_pl:*

26: em_ro:*

27: em_sts:*

28: em_un:*

29: em_vl:*

30: em_htg_hum:*

31: em_htg_inv:*

32: em_htg_other:*

33: em_htg_mus:*

34: em_htg_pln:*

35: em_htg_rod:*

36: em_htg_mam:*

37: em_htg_vtl:*

38: em_sy:*

39: em_htgo_hum:*

40: em_htgo_mus:*

41: em_htgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	27	100.0	27	6	AX268379	AX268379 Sequence
2	27	100.0	155	9	HS093598	U93598 Homo sapien
3	27	100.0	455	9	AF254358	AF254358 Homo sapi
4	27	100.0	710	9	AF027824	AF027824 Homo sapi
5	27	100.0	1992	9	AF261715	AF261715 Homo sapi
6	27	100.0	2061	6	AX403107	AX403107 Sequence
7	27	100.0	2253	6	AX467227	AX467227 Sequence
8	27	100.0	2253	9	AY101595	AY101595 Homo sapi
9	27	100.0	2472	9	BC025672	BC025672 Homo sapi
10	27	100.0	2518	9	AF176574	AF176574 Homo sapi
11	27	100.0	2558	6	AX376036	AX376036 Sequence
12	27	100.0	2653	6	AX337498	AX337498 Sequence
13	27	100.0	2653	6	I23794	I23794 Sequence 1
14	27	100.0	2653	9	HUMPSM	M99487 Human prost
15	27	100.0	93525	9	AF007544	AF007544 Homo sapi
16	27	100.0	137888	9	AP003122	AP003122 Homo sapi
17	27	100.0	156255	2	AP002369	AP002369 Homo sapi
18	27	100.0	157527	9	AC117746	AC117746 Homo sapi
19	27	100.0	158524	12	AL162372	AL162372 Homo sapi
20	27	100.0	187638	12	AC118273	AC118273 Homo sapi
21	27	100.0	192648	12	AC024234	AC024234 Homo sapi
22	27	100.0	246865	2	AC074003	AC074003 Homo sapi
23	25.4	94.1	2532	4	AF050502	AF050502 Sus scrofa
24	25.4	94.1	91667	9	AP005435	AP005435 Homo sapi
25	25.4	94.1	120000	9	AP004607	AP004607 Homo sapi
26	25.4	94.1	166287	2	AC060830	AC060830 Homo sapi
27	22.2	82.2	170102	9	AC009237	AC009237 Homo sapi
28	21.2	78.5	188798	2	AC093966	AC093966 Rattus no
29	20.8	77.0	59909	2	AC090996	AC090996 Homo sapi
30	20.6	76.3	128148	9	AC093721	AC093721 Homo sapi
31	20.6	76.3	21877	3	DV095037	U95037 Drosophila
32	20.6	76.3	82279	2	AC010464	AC010464 Homo sapi
33	20.6	76.3	128663	9	AC026745	AC026745 Homo sapi
34	20.6	76.3	152258	2	AC116838	AC116838 Mus muscu
35	20.6	76.3	171727	2	AC117809	AC117809 Mus muscu
36	20.6	76.3	175671	2	AC101274	AC101274 Homo sapi
37	20.6	76.3	202215	2	AC129327	AC129327 Mus muscu
38	20.6	76.3	214139	12	AC022129	AC022129 Homo sapi
39	20.2	74.8	18954	2	AC013871	AC013871 Drosophila
40	20.2	74.8	129338	9	AC016597	AC016597 Homo sapi
41	20.2	74.8	188973	2	AC023695	AC023695 Drosophila
42	20.2	74.8	319551	3	AE003432	AE003432 Drosophila
43	19.8	73.3	11018	1	AE002395	AE002395 Neisseria
44	19.8	73.3	38700	3	CET09A5	Z36753 Caenorhabdi
45	19.8	73.3	169830	2	AC013345	AC013345 Homo sapi

ALIGNMENTS

RESULT 1	AX268379	27 bp	DNA	linear	PAT 29-OCT-2001
LOCUS	AX268379				
DEFINITION	Sequence 17 from Patent WO0174845.				
ACCESSION	AX268379				
VERSION	AX268379.1 GI:16541586				
KEYWORDS					
SOURCE					
ORGANISM					
REFERENCE 1					
AUTHORS	Pedyczak,A., Chong,P. and Sia,C.D.				
TITLE	Immunogenic peptides derived from prostate-specific membrane antigen (psma) and uses thereof				
JOURNAL	Patent: WO 0174845-A 17 11-OCT-2001;				

FEATURES
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Location/Qualifiers
1..27
/organism="synthetic construct"
/db_xref="taxon:32630"
/note="CLP337"

BASE COUNT
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ORIGIN
Query Match 100.0%; Score 27; DB 6; Length 27;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
1 GCTCTGTTGATTTGAAGCAAGTG 27

Db 1 GCTCTGTTGATTTGAAGCAAGTG 27

RESULT 2
LOCUS HS093598 155 bp DNA linear PRI 05-JUL-2001
DEFINITION Homo sapiens PSM pseudogene, partial sequence.
ACCESSION U93598
VERSION U93598.1 GI:2585989
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 155)
AUTHORS Maraj, B.H., Leek, J.P., Karayl, M., Ali, M., Lench, N.J. and Markham, A.F.
TITLE Detailed genetic mapping around a putative prostate-specific membrane antigen locus on human chromosome 11p11.2
JOURNAL Cytochrome. Cell Genet. 81 (1), 3-9 (1998)
MEDLINE 98358137
PUBMED 9691167
REFERENCE 2 (bases 1 to 155)
AUTHORS Maraj, B.H., Bailey, A., Carr, I.M. and Markham, A.F.
TITLE Direct Submission
JOURNAL Submitted (11-MAR-1997) Molecular Medicine Unit, Leeds University, Beckett Street, Leeds, West Yorkshire LS9 7TF, England
3 (bases 1 to 155)
AUTHORS Maraj, B.H., Bailey, A., Carr, I.M. and Markham, A.F.
TITLE Direct Submission
JOURNAL Submitted (05-NOV-1997) Molecular Medicine, Leeds University, Beckett Street, Leeds, West Yorkshire LS9 7TF, England
REMARK Sequence update by submitter
COMMENT On Nov 5, 1997 this sequence version replaced gi:1928992.
FEATURES
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/db_xref="taxon:9606"
/chromosome="11"
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/gene="PSM"
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/pseudo
/codon_start=1
BASE COUNT 41 a 29 c 46 g 39 t

ORIGIN
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Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
1 GCTCTGTTGATTTGAAGCAAGTG 27

Db 37 GCTCTGTTGATTTGAAGCAAGTG 63

RESULT 3
LOCUS AF254358 455 bp mRNA linear PRI 22-MAY-2000
DEFINITION Homo sapiens prostate-specific membrane antigen PSM mRNA, exon 18
ACCESSION AF254358
VERSION AF254358
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 455)
AUTHORS Neale, J.H., Turt, T., Wroblewska, B., She, D., Chung, H.S., Kim, H. and Neale, J.H.
TITLE Molecular cloning of a peptidase against N-acetylserine protease from a rat hippocampal cDNA library
JOURNAL J. Neurochem. 69 (6), 2270-2277 (1997)
MEDLINE 98041505
PUBMED 9375657
REFERENCE 2 (bases 1 to 455)
AUTHORS Lupold, S.E., Criley, S.C. and Coffey, D.S.
TITLE Alternative splicing of the prostate-specific Membrane Antigen
JOURNAL Unpublished
3 (bases 1 to 455)
AUTHORS Lupold, S.E. and Coffey, D.S.
TITLE Direct Submission
JOURNAL Submitted (07-APR-2000) Urology, Johns Hopkins School of Medicine, Marburg 113, 600 N Wolfe St, Baltimore, MD 21287-2101, USA

FEATURES
source
Location/Qualifiers
1..455
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/db_xref="taxon:9606"
/chromosome="11"
/map="11p11-p12"
/cell_line="LNCap"
/cell_line="LNCap"
/note="glutamate carboxypeptidase II; folate hydrolase; exon 18 alternative splice variant"
/product="prostate-specific membrane antigen PSM"
/product="prostate-specific membrane antigen PSM"
/protein_id="AA071358.1"
/db_xref="GI:7963797"
/translation="ELANSIVLPEDCDVAVLRKYADKYSIMKHPOEMKYVSF
DSLEFSAVKNTEIASKPSERIQDFDMSMSMLQAAVTSQGSQSFPMICLTKAKW
TLRPPGK"

CDS
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Best Local Similarity 100.0%; Pred. No. 1.5;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
1 GCTCTGTTGATTTGAAGCAAGTG 27

Db 279 GCTCTGTTGATTTGAAGCAAGTG 305

RESULT 4
LOCUS AF027824 710 bp mRNA linear PRI 02-AUG-1999
DEFINITION Homo sapiens prostate-specific membrane protein 1 (FOLH1)
ACCESSION AF027824
VERSION AF027824.1 GI:5669560
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 710)
AUTHORS Maraj, B.H., Mcadam, R.A.A., Markham, A.F. and Guillou, P.J.
TITLE Direct Submission

JOURNAL Submitted (02-OCT-1997) Molecular Medicine Unit, Leeds University, Beckett, Leeds, Yorkshire LS7 9TF, UK

FEATURES
SOURCE
1. 710
/organism="Homo sapiens"
/db_xref="taxon:9606"
/tissue_type="colon adenocarcinoma"
/note="derived by RT-PCR"
<1..>710
/gene="FOLH1"
/note="Prostate-specific membrane protein 1; PSM1"
/pseudo

BASE COUNT 218 a 135 c 162 g 195 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 710;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GCTCTGTTTGATTTGAAGCAAGTG 27
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Db 591 GCTCTGTTTGATTTGAAGCAAGTG 617

RESULT 5
AF261715 1992 bp mRNA linear PRI 02-NOV-2000

LOCUS Homo sapiens prostate-specific membrane antigen-like protein (PSMA/GCP III) mRNA, complete cds.

ACCESSION AF261715

VERSION AF261715.1 GI:11078563

KEYWORDS

SOURCE Homo sapiens.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases: 1 to 1992)
O'Keefe,D.S., Bacich,D.J. and Heston,W.D.W.
Cloning and characterization of a novel glutamate-preferring peptidase that maps to the SCZD11 locus: a candidate gene for Schizophrenia?

JOURNAL Unpublished
2 (bases: 1 to 1992)
O'Keefe,D.S., Bacich,D.J. and Heston,W.D.W.
Expression profile of Prostate-Specific Membrane Antigen (PSMA) versus a Prostate-Specific Membrane Antigen-Like Gene in Normal Tissues, Prostate Cancer and Tumor Associated-Vasculature

REFERENCE 3 (bases: 1 to 1992)
O'Keefe,D.S., Bacich,D.J. and Heston,W.D.W.
Direct Submission
Submitted (27-APR-2000) Cancer Biology, Cleveland Clinic Foundation, NB 40, 9500 Euclid Avenue, Cleveland, OH 44195, USA

JOURNAL Location/Qualifiers
1. 1992
/organism="Homo sapiens"
/db_xref="taxon:9606"
/chromosome="11"
/map="11q14.3"
/tissue_type="liver"
/note="maps to Schizophrenia Disorder Type II, locus"
1. 1992
/gene="PSMA/GCP III"
527..1855
/function="N-acetylated-alpha-linked-acidic dipeptidase"
/note="glutamate carboxypeptidase III; similar to Homo sapiens PSMA; folate hydrolase-like; member of the M28 peptidase family; formed by duplication of the PSMA gene"
/codon_start=1
/product="prostate-specific membrane antigen-like protein"
/protein_id="AAG29102.1"
/db_xref="GI:11078564"

CDs

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LMVSLVNLTKELKSPDEGEKSLYESWTKSPSPFGMRISKLGSNDVEVFPQ
RLGIASGRARYTKMNETNKFSGYPLHYSEYELVEKEDYDPMFHYHLVAQVRGMV
FELANSIVLPEFCRDYAVVLRKADKIYISMKHQEMKTYSLSDSLSAVAKNTEI
ASKFSERLQDPKSNPDLIRMMNDOLMFLERAFIDPILGIDPDPFPHVITYAASNNKY
AGSEFPGIYDALFDEISKVDPKAGNDVKROIISVAFTYQAAAEITLSEVA"

BASE COUNT 638 a 352 c 451 g 551 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 1992;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GCTCTGTTGATTTGAAGCAAGTG 27
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Db 1733 GCTCTGTTGATTTGAAGCAAGTG 1759

RESULT 6
AX403107 2061 bp DNA linear PAT 07-JUN-2002

LOCUS Sequence 2 from Patent WO0226984.

DEFINITION AX403107

ACCESSION AX403107

VERSION AX403107.1 GI:21388049

KEYWORDS

SOURCE human.
Homo sapiens

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
Betty,M., An,W., Ling,H.P. and Rhodes,K.
Potassium Channel Interactors and uses therefor
Patent: WO 0226984-A 2 04-APR-2002;
MILLENNIUM PHARM INC (US)

JOURNAL Location/Qualifiers
1. 2061
/organism="Homo sapiens"
/db_xref="taxon:9606"

FEATURES
SOURCE

BASE COUNT 630 a 391 c 468 g 572 t

ORIGIN

Query Match 100.0%; Score 27; DB 6; Length 2061;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GCTCTGTTGATTTGAAGCAAGTG 27
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Db 1942 GCTCTGTTGATTTGAAGCAAGTG 1968

RESULT 7
AX467227 2253 bp DNA linear PAT 16-JUL-2002

LOCUS Sequence 1 from Patent WO0234287.

DEFINITION AX467227

ACCESSION AX467227

VERSION AX467227.1 GI:21900509

KEYWORDS

SOURCE human.
Homo sapiens

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
Beier,A.M., Gautam,A. and Moultsen,S.R.
Novel therapeutic vaccine formulations
Patent: WO 0234287-A 1 02-MAY-2002;
Pharmexa A/S (DK)

JOURNAL Location/Qualifiers
1. 2253
/organism="Homo sapiens"
/db_xref="taxon:9606"

CDs 1. 2253

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FSAFSPQMGPEGLDLYVNAVARTEDFEKLEROMKINCSKIVIAKCKVRGNKAKAO
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YARRGIAEAVGLPSIPADYFAPGVKSYDPGNNLPGCGVORGNILNAGADFLITGYPANE
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4..6
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58..2253
/note="Human PSM"
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Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAAGCAAGTG 27
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Db 2131 GCTCTGTTGATTTGAAAGCAAGTG 2157

RESULT 8
LOCUS      AY101595      2253 bp      mRNA      linear      PRI 27-MAY-2002
DEFINITION Homo sapiens prostate-specific membrane antigen mRNA, complete cds.
ACCESSION  AY101595
VERSION     AY101595.1 GI:21217742
KEYWORDS
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE   1 (bases 1 to 2253)
AUTHORS     Ye,C.Z., Zhang,F.L., Zhang,Y.K. and Chen,C.Q.
TITLE       Cloning and sequencing of Chinese prostate-specific membrane
            antigen
JOURNAL     Manyxue zazhi 17 (5), 328-330 (2001)
REFERENCE   2 (bases 1 to 2253)
AUTHORS     Ye,C.Z.
TITLE       Direct Submission
JOURNAL     Submitted (06-MAY-2002) Department of Urology, Zhongshan Hospital,
            Medical Center of Fudan University, Fenglin Rd 180, Shanghai
            200032, China
FEATURES
Source
1..2253
/organism="Homo sapiens"
/db_xref="taxon:9606"
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/sex="male"
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/country="China"
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/db_xref="GI:21217743"
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YARRGIAEAVGLPSIPADYFAPGVKSYDPGNNLPGCGVORGNILNAGADFLITGYPANE
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AVHEIVRSFGTLKRGMRPRITLIPASDADEFGILGSTEWAEERSRLQERGVAI
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MERISKLGSNDPEVEFORGLASGRARTKMEWTKFEGKSLYESWTKSPSPERG
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AVHEIVRSFGTLKRGMRPRITLIPASDADEFGILGSTEWAEERSRLQERGVAI
NADSSIEGNTTLRVDCPTPLMYSILVHLTKELSPDEFGKSLYESWTKSPSPERG
MERISKLGSNDPEVEFORGLASGRARTKMEWTKFEGKSLYESWTKSPSPERG
DPMFKYHLTVAQVRCGMVELANSIYLPDPCDXYAVLKKYADKITYSISMKHPQEKY
YVSFDSLFSAAVKNFTELASKRSEIROPDCKSNPIYLRMMNDQLMFLERAFIDPGLP
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Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAAGCAAGTG 27
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Db 2131 GCTCTGTTGATTTGAAAGCAAGTG 2157

RESULT 9
LOCUS      BC025672      2472 bp      mRNA      linear      PRI 11-MAR-2002
DEFINITION Homo sapiens, similar to isolate hydrolyase (prostate-specific
            membrane antigen) 1, clone MGC:34488 IMAGE:5202715, mRNA, complete
            cds.
ACCESSION  BC025672
VERSION     BC025672.1 GI:19343603
KEYWORDS
SOURCE      Homo sapiens
ORGANISM    Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE   1 (bases 1 to 2472)
AUTHORS     Strausberg,R.
TITLE       Direct Submission
JOURNAL     Submitted (06-MAR-2002) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
REMARK
COMMENT      NIH-MGC Project URL: http://mgc.nci.nih.gov
            Contact: MGC help desk
            Email: cgabs-remail.nih.gov
            Tissue Procurement: Life Technologies, Inc.
            cDNA Library Preparation: Life Technologies, Inc.
            CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland.
            Web site: http://www.nisc.nih.gov/
            Contact: nisc.mgc@nih.gov
            Shevchenko,Y., Wetherby,K.D., Beckstrom-Sternberg,S.M.,
            Benjamin,B., Blakesley,R.W., Bouffard,G.G., Binkley,C., Brooks,S.,
            Dietrich,N.L., Guan,X., Gupta,J., Ho,S.-L., Karlins,E., Legaspi,R.,
            Lim,M., Maduro,O.L., Masello,C., Mastrian,S.D., McCloskey,J.C.,
            McDowell,J., Pearson,R., Snyder,B., Stantipod,S., Thomas,P.J.,
            Tlonsong,E.E., Touchman,J.W., Tsurgon,C., Vogt,J.L., Walker,M.A.,
            Zhang,L.-H. and Green,E.D.
            Clone distribution: MGC clone distribution information can be found
            through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
            Series: IRAP Plate: 49 Row: e Column: 5
            This clone was selected for full length sequencing because it
            passed the following selection criteria: matched mRNA gi: 4758397.
            Location/Qualifiers
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            /db_xref="taxon:9606"
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            /clone_id="NIH_MGC_122"
FEATURES
Source

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CDS

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/note="vector: pCMV-SPORT6"
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membrane antigen) 1"
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GNFSTOKKMHHSNTEVRIYVIGTLRGAVEPRRYVILGHRDMSWVGIDPQSGA
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BASE COUNT 746 a 483 c 594 g 649 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 2472;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
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Db 2197 GCTCTGTTGATATGGAAGCAAGTG 2223

RESULT 10
AF176574 2518 bp mRNA linear PRI 28-NOV-2000
LOCUS Homo sapiens folylpoly-gamma-glutamate carboxypeptidase (FCGP)
DEFINITION mRNA, complete cds.
ACCESSION AF176574
VERSION AF176574.1 GI:5762481
KEYWORDS
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 2518)
AUTHORS Devlin,A.M., Ling,E.H., Pearson,J.M., Fernando,S., Clarke,R.,
Smith,A.D. and Halsted,C.H.
TITLE Glutamate carboxypeptidase II: a polymorphism associated with lower
levels of serum folate and hyperhomocysteinemia
JOURNAL Hum. Mol. Genet. 9 (19), 2837-2844 (2000)
MEDLINE 20545101
PUBMED 11092755
REFERENCE 2 (bases 1 to 2518)
AUTHORS Devlin,A.M., Ling,E.H. and Halsted,C.H.
TITLE Direct Submission
JOURNAL Submitted (09-AUG-1999) Internal Medicine, University of
California, Davis, TB 156, Davis, CA 95616, USA
FEATURES
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/organism="Homo sapiens"
/db_xref="taxon:9606"
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139..2391
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DIESKVDPSKAMGEVKKROIYVAAFVQAAAEFLSEVA"

BASE COUNT 747 a 491 c 604 g 676 t

ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 2269 GCTCTGTTGATATGGAAGCAAGTG 2295

RESULT 11
AX376036 2558 bp DNA linear PAT 01-MAR-2002
LOCUS Sequence 103 from Patent WO0168848.
DEFINITION AX376036
ACCESSION AX376036
VERSION AX376036.1 GI:19170410
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Baker,K.P., Chen,J., Desnoyers,L., Goddard,A., Godowski,P.J.,
Gurney,A.L., Pan,J., Smith,Y., Watanabe,C.K., Wood,W.I. and
Zhang,Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 0168848-A 103 20-SEP-2001;
Genentech, Inc. (US)
FEATURES
source
1..2558
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 745 a 509 c 623 g 681 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
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Db 2314 GCTCTGTTGATATGGAAGCAAGTG 2340

RESULT 12
AX337498 2653 bp DNA linear -PAT 09-JAN-2002
LOCUS Sequence 8007 from Patent WO0194629.
DEFINITION AX337498
ACCESSION AX337498
VERSION AX337498.1 GI:18128217
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1
AUTHORS Young,P.E., Augustus,M., Carter,K.C., Ebner,R., Endress,G.,
Horligan,S., Soppet,D.R. and Weaver,Z.

TITLE Cancer gene determination and therapeutic screening using signature gene sets
JOURNAL Patent: WO 0194629-A 8007 13-DEC-2001;
Avalon Pharmaceuticals (US)
FEATURES Location/Qualifiers
Source 1..2653
/organism="Homo sapiens"
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BASE COUNT 782 a 524 c 640 g 707 t
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Best Local Similarity: 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
Db 2392 GCTCTGTTGATATGGAAGCAAGTG 2418

RESULT 13
LOCUS 123794 2653 bp DNA linear PAT 07-OCT-1996
DEFINITION Sequence 1 from patent US 5538866.
ACCESSION 123794
KEYWORDS 123794.1 GI:1603664
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 2653)
AUTHORS Israeli,R.S., Heston,W.D.W. and Fair,W.R.
TITLE Prostate-specific membrane antigen
JOURNAL Patent: us 5538866-A 1 23-JUL-1996;
FEATURES Location/Qualifiers
Source 1..2653
/organism="unknown"

BASE COUNT 782 a 524 c 640 g 707 t
ORIGIN

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Best Local Similarity: 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
Db 2392 GCTCTGTTGATATGGAAGCAAGTG 2418

RESULT 14
LOCUS HUMPSM 2653 bp mRNA linear PRI 08-JAN-1995
DEFINITION Human prostate-specific membrane antigen (PSM) mRNA, complete cds.
ACCESSION M99487
VERSION M99487.1 GI:190663
KEYWORDS prostate-specific membrane antigen.
SOURCE Homo sapiens (tissue library: LNCap cDNA of Ron Israeli) male
prostatic carcinoma metastatic lymph node cDNA to mRNA.
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 2653)
AUTHORS Israeli,R.S., Powell,C.T., Fair,W.R. and Heston,W.D.
TITLE Molecular cloning of a complementary DNA encoding a
JOURNAL prostate-specific membrane antigen
MEDLINE Cancer Res. 53 (2), 227-230. (1993)
PUBMED 93113576
FEATURES Location/Qualifiers
Source 8417812

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CDS

BASE COUNT 782 a 524 c 640 g 707 t
ORIGIN

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Best Local Similarity: 100.0%; Pred. No. 1.2;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
Db 2392 GCTCTGTTGATATGGAAGCAAGTG 2418

RESULT 15
LOCUS AF007544 93525 bp DNA linear PRI 10-DEC-1998
DEFINITION Homo sapiens prostate-specific membrane antigen (PSM) gene, complete cds.
ACCESSION AF007544
VERSION AF007544
KEYWORDS AF007544.1 GI:2970122
SOURCE Homo sapiens
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 93525)
AUTHORS O'Keefe,D.S., Su,S.L., Bacich,D.J., Horiguchi,Y., Luo,Y.,
Shows,T.B., Mullins,C., Vonder Haar,R.A., Fair,W.R. and Heston,W.D.
TITLE Mapping, genomic organization and promoter analysis of the human
JOURNAL prostate-specific membrane antigen gene
MEDLINE Blochum. Biophys. Acta 1443 (1-2), 113-127 (1998)
PUBMED 9838072

REFERENCE 2 (bases 1682 to 65315)
AUTHORS Heston,W.D.W., Su,S.L., Luo,Y., Hurry,K., Bacich,D.J., Fair,W.R.,
Mullins,C. and Vonder Haar,R.A.
TITLE Direct Submision
JOURNAL Submitted (06-JUN-1997) Memorial Sloan Kettering Cancer Center,
1275 York Avenue, New York, New York 10021, USA
3 (bases 1 to 93525)
O'Keefe,D.S., Su,S.L., Luo,Y., Horiguchi,Y., Bacich,D.J.,
Powell,C.T., Zandvliet,D., Russell,P.J., Molloy,P.L., Nowak,N.J.,
Mullins,C., Vonder Haar,R.A., Fair,W.R. and Heston,W.D.W.
TITLE Direct Submision
JOURNAL Submitted (18-MAR-1998) Memorial Sloan Kettering Cancer Center,

REMARK 1275 York Avenue, New York, New NY 10021, USA
Sequence update by submitter
COMMENT On Mar 19, 1998 this sequence version replaced gi:2897945.
FEATURES Location/Qualifiers
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DPMERYHLTVAGVRCGMVPELANSIVLPDCCRDYAVVLRKADKIYSIMKHPOEKT
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AAAEFLSEVA"

BASE COUNT 28711 a 17148 c 16599 g 31061 t 6 others
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 93525;
Best Local Similarity 100.0%; Pred. No. 0.76;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAAGCAAGTG 27
|||||
DB 64276 GCTCTGTTGATATGAAAGCAAGTG 64302

Search completed: April 14, 2003, 14:09:18
Job time : 534.667 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 09:27:29 ; Search time 99 Seconds

(without alignments)
614.181 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27

Sequence: 1 gctcgttgcgtatgaaagcaagtg 27

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	27	100.0	27	22	AA515144	Human DNA encoding
2	27	100.0	435	23	ABV43871	Human prostate exp
3	27	100.0	442	24	ABK64577	Human benign prost
4	27	100.0	578	23	ABV43616	Human prostate exp
5	27	100.0	1037	21	AAF15651	Human prostate can
6	27	100.0	1992	21	AA61762	CDNA encoding a pr
7	27	100.0	2061	24	AA34009	Human gene 4 CDNA.
8	27	100.0	2253	21	AA09454	Human prostate spe
9	27	100.0	2558	21	AA78599	Human PRO739 nucle

10	27	100.0	2558	22	AA545976	Human DNA encoding
11	27	100.0	2653	15	AA065520	Prostate-specific
12	27	100.0	2653	24	ABK6204	CDNA encoding huma
13	27	100.0	2653	24	ABK64556	Human benign prost
14	27	100.0	2653	24	ABK64556	Prostate cancer re
15	27	100.0	2654	17	AA736785	Prostate-specific
16	27	100.0	2884	23	ABV22873	Human prostate exp
17	27	100.0	2884	23	ABV23013	Human prostate exp
18	27	100.0	2884	23	ABV28703	Human prostate exp
19	27	100.0	2884	23	ABV28849	Human prostate exp
20	25.4	94.1	308	23	ABV13912	Human prostate exp
21	25.4	94.1	455	23	ABV35023	Human prostate exp
22	25.4	94.1	2226	21	AA12732	Human prostate exp
23	24	88.9	434	23	ABV18480	Human prostate exp
24	23.8	88.1	218	23	ABV34784	Human prostate exp
25	23.8	88.1	309	23	ABV13650	Human prostate exp
26	23.8	88.1	466	23	ABV48264	Human prostate exp
27	22.4	83.0	330	23	ABV04743	Human prostate exp
28	19.8	73.3	703	21	AA81857	N. meningitidis pa
29	19.8	73.3	994	21	AA81461	N. meningitidis pa
30	19.8	73.3	349980	21	AA721607	N. meningitidis pa
31	19.8	73.3	143768	21	AA81490	N. meningitidis B
32	19.6	72.6	17381	21	AA81493	N. meningitidis pa
33	18.6	68.9	303	22	AAK70893	Human immune/haema
34	18.6	68.9	348	22	AAK57686	Human immune/haema
35	18.6	68.9	759	23	AA576034	DNA encoding novel
36	18.6	68.9	1589	21	AA44844	Arabidopsis thailia
37	18.6	68.9	3110	21	AA258312	Human peptidase NA
38	18.6	68.9	3171	22	AA93781	Human peptidase NA
39	18.6	68.9	3771	22	AA98667	Human EST-derived
40	18.2	67.4	644	21	AAV02476	Human colon cancer
41	18.2	67.4	1268	18	AAV04604	Staphylococcus aur
42	18.2	67.4	1473	21	AA432324	Arabidopsis thailia
43	18.2	67.4	1599	24	AB054279	Human ovarian anti
44	18.2	67.4	1620	18	AA784030	DNA encoding Staph
45	18.2	67.4	1620	19	AAV53424	DNA encoding a prt

ALIGNMENTS

RESULT 1	AA515144	standard; DNA: 27 BP.
ID	AA515144	
AC	AA515144	
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XX		
DT	16-JAN-2002	(first entry)
XX		
XX		
DE	Human DNA encoding a PSMA derived immunogenic peptide CLP337.	
XX		
KW	Human; ds. PSMA; prostate specific membrane antigen; prostate cancer;	
KW	tumour; Immunogenic peptide; cytostatic; gene therapy; CLP337.	
XX		
OS	Homo sapiens.	
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FH	Key	Location/Qualifiers
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FT		/partial
FT		/note= "No start or stop codon"
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PN	WO200174845-A2	
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PD	11-OCT-2001.	
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PF	30-MAR-2001; 2001WO-CA00411.	
XX		
PR	31-MAR-2000; 2000US-193386P.	
XX		
PA	(AVET) AVENTIS PASTEUR LTD.	
XX		

PI Pedyczak A, Chong P, Sia CDY;
XX WPI; 2001-626378/72.
DR P-PSDB; AAU09109.
XX
XX New polypeptides useful for inducing an immune response and treating
PT prostate cancer comprises polypeptides derived from the prostate
PT specific membrane antigen
XX
XX Claim 6; Page 15; 47pp; English.
XX
XX The invention relates to prostate specific membrane antigen (PSMA)
CC derived peptides (and the nucleic acids encoding them) capable of
CC eliciting an immune response. The molecules of the invention are used to
CC elicit an immune response, particularly to treat cancer and tumours,
CC especially prostate cancer. Delivery of the peptides may be by
CC expression from the nucleic acids encoding them (i.e. gene therapy).
CC The present sequence encodes a PSMA derived immunogenic peptide.
XX
SQ Sequence 27 BP; 8 A; 3 C; 7 G; 9 T; 0 other;

Query Match 100.0%; Score 27; DB 22; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.042;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 GCTCTGTTGATATGAAAGCAAGTG 27
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RESULT 2
ID ABV43871/c
ABV43871 standard; cDNA; 435 BP.
XX
AC ABV43871;
XX
DT 16-SEP-2002 (first entry)
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DE Human prostate expression marker cDNA 43862.
XX
XX Human; prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
KM pharmacogenomic marker; gene; ss.
XX
XX Homo sapiens.
OS
XX
PN WO200160860-A2.
XX
PD 23-AUG-2001.
XX
PF 20-FEB-2001; 2001WO-US05171.
XX
PR 17-FEB-2000; 2000US-183119P.
PR 16-MAR-2000; 2000US-189862P.
PR 25-MAY-2000; 2000US-207454P.
PR 09-JUN-2000; 2000US-211314P.
PR 18-JUL-2000; 2000US-219007P.
PR 13-DEC-2000; 2000US-255281P.
XX
XX (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX
PI Schlegel R, Endege WO, Monahan JE;
XX
XX WPI; 2001-662795/76.
XX
XX Novel isolated nucleic acid molecule associated with cancerous state of
PT prostate cells and correlating with presence of prostate cancer, useful
PT for detecting presence of prostate cancer, stage of prostate cancer
XX
XX Claim 1; Page 8725; 11750pp; English.
XX
XX The invention relates to an isolated nucleic acid molecule (I) comprising
CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
CC specification or its complement. (I) is useful for:

CC (a) assessing whether a patient is afflicted with prostate cancer;
CC (b) monitoring the progression of prostate cancer in a patient;
CC (c) assessing the efficacy of a test compound to inhibit prostate
CC cancer in a patient;
CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
CC in a patient;
CC (e) selecting a composition for inhibiting prostate cancer in a patient;
CC (f) assessing the prostate cell carcinogenic potential of a compound;
CC (g) determining whether prostate cancer has metastasized in a patient;
CC (h) assessing the aggressiveness or indolence of prostate cancer in a
CC patient;
CC (i) is also useful as a pharmacodynamic or pharmacogenomic marker.
XX
SQ Sequence 435 BP; 122 A; 99 C; 70 G; 144 T; 0 other;

Query Match 100.0%; Score 27; DB 23; Length 435;
Best Local Similarity 100.0%; Pred. No. 0.055;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGAAAGCAAGTG 27
Db 309 GCTCTGTTGATATGAAAGCAAGTG 283
|||||

RESULT 3
ID ABK64577/c
ABK64577 standard; DNA; 442 BP.
XX
AC ABK64577;
XX
DT 18-JUN-2002 (first entry)
XX
DE Human benign prostatic hyperplasia gene #472.
XX
XX Human; benign prostatic hyperplasia; BPH; prostate cancer; gene; ds.
OS
XX
PN WO200212440-A2.
XX
PD 14-FEB-2002.
XX
PF 07-AUG-2001; 2001WO-US24708.
XX
PR 07-AUG-2000; 2000US-223233P.
PR 05-JUN-2001; 2001US-0873319.
XX
XX (GENE-) GENE LOGIC INC.
XX
XX (NISB) JAPAN TOBACCO INC.
XX
PI Munger WE, Kulikarni P, Getzenberg RH, Waga I, Yamamoto J;
XX
XX WPI; 2002-257476/30.
XX
XX Identifying drugs for and diagnosing benign prostatic hyperplasia, by
PT detecting expression levels of one or more genes in prostate cells from
PT patient that are differentially regulated compared to normal prostate
PT cells
XX
XX Disclosure; Page 274; 444pp; English.
XX
XX The invention relates to a method of diagnosing (I) the onset or
CC progression of benign prostatic hyperplasia (BPH), or screening (II) for
CC or identifying an agent that modulates the onset or progression of BPH.
CC The method is based on changes in gene expression in BPH tissue isolated
CC from patients exhibiting different clinical states of prostate
CC hyperplasia as compared to normal prostate tissue. (I) comprises
CC detecting the expression levels of one or more genes in prostate cells
CC from the subject that are differentially regulated compared to normal
CC prostate cells. (II) comprises preparing a first gene expression profile
CC of BPH cells or BPH-like cell population, exposing the cells to the
CC agent, preparing a second gene expression profile of the agent exposed
CC cells, and comparing the first and second gene expression profiles.

CC (I) is useful for diagnosing the onset or progression of BPH. (II) is
 CC useful for identifying an agent that modulates the onset or progression
 CC of BPH. The methods are useful to present information identifying
 CC the expression level in a tissue or cells, by comparing the expression
 CC level of genes given in the specification in the tissue or cells to the
 CC level of expression of gene in the database, and displaying the
 CC expression levels of at least one gene in the tissue or cell sample
 CC compared to the expression level in BPH. Agents using (II) are useful for
 CC treating BPH or prostate cancer. ABK64106-ABK64860 represent human
 CC benign prostatic hyperplasia gene sequences of the invention.

SQ Sequence 442 BP; 127 A; 102 C; 71 G; 142 T; 0 other;

Query Match 100.0%; Score 27; DB 24; Length 442;
 Best Local Similarity 100.0%; Pred. No. 0.055;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
 |||||||||||||||||||
 DB 241 GCTCTGTTGATATGAAAGCAAGTG 215

RESULT 4
 ABV43616/c
 ID ABV43616 standard; cDNA; 578 BP.
 XX
 AC ABV43616;
 XX
 DT 16-SEP-2002 (first entry)
 XX
 DE Human prostate expression marker cDNA 43607.
 XX
 KW Human prostate cancer; cytostatic; carcinogen; pharmacodynamic marker;
 KM pharmacogenomic marker; gene; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200160860-A2.
 XX
 PD 23-AUG-2001.
 XX
 PF 20-FEB-2001; 20J1WO-US05171.
 XX
 PR 17-FEB-2000; 20J0US-183319P.
 PR 16-MAR-2000; 20J0US-189862P.
 PR 25-MAY-2000; 20J0US-207454P.
 PR 09-JUN-2000; 20J0US-211314P.
 PR 18-JUL-2000; 20J0US-219007P.
 PR 13-DEC-2000; 20J0US-255281P.
 XX
 PA (MILL) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX
 PI Schlegel R, Enjege WO, Monahan JE;
 XX
 DR WPI; 2001-662795/76.
 XX
 PT Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer, useful
 PT for detecting presence of prostate cancer, stage of prostate cancer -
 XX
 PS Claim 1; Page 8584; 11750pp; English.
 XX
 CC The invention relates to an isolated nucleic acid molecule (I) comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV62213) of the
 CC specification or its complement. (I) is useful for:
 CC (a) assessing whether a patient is afflicted with prostate cancer;
 CC (b) monitoring the progression of prostate cancer in a patient;
 CC (c) assessing the efficacy of a test compound to inhibit prostate
 CC cancer in a patient;
 CC (d) assessing the efficacy of a therapy for inhibiting prostate cancer
 CC in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound;

CC (g) determining whether prostate cancer has metastasized in a patient;
 CC (h) assessing the aggressiveness or indolence of prostate cancer in a
 CC patient.
 CC (I) is also useful as a pharmacodynamic or pharmacogenomic marker.
 XX

SQ Sequence 578 BP; 162 A; 125 C; 101 G; 190 T; 0 other;

Query Match 100.0%; Score 27; DB 23; Length 578;
 Best Local Similarity 100.0%; Pred. No. 0.057;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
 |||||||||||||||||||
 DB 317 GCTCTGTTGATATGAAAGCAAGTG 291

RESULT 5
 AAF15651
 ID AAF15651 standard; cDNA; 1037 BP.
 XX
 AC AAF15651;
 XX
 DT 13-MAR-2001 (first entry)
 XX
 DE Human prostate cancer antigen nucleotide sequence SEQ ID NO:86.
 XX
 KW Human; prostate cancer; prostate cancer antigen; detection; diagnosis;
 KM neuroprotective; cytostatic; cardioactive; immunomodulatory; muscular;
 KW vulnary; gastrointestinal; nephrotoxic; anti-infective; gynaecological;
 KM antibacterial; gene therapy; neural; immune; reproductive; renal;
 KW gastrointestinal; pulmonary; cardiovascular; proliferative disorder;
 KM wound; infectious disease; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200055174-A1.
 XX
 PD 21-SEP-2000.
 XX
 PF 08-MAR-2000; 2000WO-US05988.
 XX
 PR 12-MAR-1999; 99US-0124270.
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 PA (ROSE/) ROSEN C A.
 XX
 PI Rosen CA, Ruben SM;
 XX
 DR WPI; 2000-587513/55.
 DR P-PSDB; AAB56448.
 XX
 PT Prostate cancer associated gene sequences, referred to as prostate
 PT cancer antigens, useful for treatment, prevention, and diagnosis of
 PT disorders such as prostate cancer -
 XX
 PS Claim 1; Page 672-673; 2338pp; English.
 XX
 CC AAF15656 to AAF16505 encode the human prostate cancer associated
 CC proteins, called prostate cancer antigens, given in AAB56363 to AAB57302.
 CC The prostate cancer antigens can have neuroprotective, cytostatic,
 CC cardioactive, immunomodulatory, muscular, vulnary, gastrointestinal,
 CC nephrotoxic, anti-infective, gynaecological and antibacterial activities,
 CC and can be used in gene therapy. The prostate cancer antigen
 CC polynucleotides may be used for detection of prostate cancer, chromosome
 CC identification, as chromosome markers, and for numerous other diagnostic
 CC or research purposes. The prostate cancer antigens may be used to treat
 CC disorders such as neural, immune, muscular, reproductive,
 CC gastrointestinal, pulmonary, cardiovascular, renal, and proliferative
 CC disorders, wounds, and infectious diseases. AAF16506 to AAF16514 to
 CC AAB57303 represent sequences used in the exemplification of the present
 CC invention.
 XX
 SQ Sequence 1037 BP; 337 A; 174 C; 228 G; 297 T; 1 other;

Query Match 100.0%; Score 27; DB 21; Length 1037;
 Best Local Similarity 100.0%; Pred. No. 0.06;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAAGCAAAAGTG 27
 DB 780 GCTCTGTTGATATTGAAGCAAAAGTG 806

RESULT 6

AAC61762
 ID AAC61762 standard; CDNA; 1992 BP.

XX AAC61762;

DT 06-MAR-2001 (first entry)

XX CDNA encoding a prostate-specific membrane antigen-like protein.

XX Human; prostate specific membrane antigen like protein; cancer;

KW PSMA-like protein; chromosome 11q14.3; schizophrenia;

XX schizophrenia disorder type II locus; ss.

XX Homo sapiens.

XX Key

XX Location/Qualifiers

XX 527..1855

XX /tag= a

XX /product= "prostate-specific membrane antigen-like

XX protein"

XX WO200061605-A1.

XX 19-OCT-2000.

XX 07-APR-2000; 2000WO-US09417.

XX 09-APR-1999; 99US-0128839.

XX (SLOK) SLOAN KETTERING INST CANCER RES.

XX Heston MDW, O'Keefe DS;

XX WPI: 2000-679461/66.

XX P-PSDB; AAB19377.

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RESULT 7

AAD34009
 ID AAD34009 standard; CDNA; 2061 BP.

XX AAD34009;

XX 25-JUL-2002 (first entry)

XX Human gene 4 CDNA.

XX Human; gene 4; N-acetylated-gamma-linked-acidic dipeptidase; NALADase;

KW chromosome 11; drug identification; glutamate peptidase modulator;

XX schizophrenia; therapy; gene; ss.

XX Homo sapiens.

XX Key

XX Location/Qualifiers

XX 1..2061

XX /tag= a

XX /product= "Human protein having NALADase like activity"

XX /note= "CDS does not include start and stop codon"

XX /partial

XX WO200226991-A2.

XX 04-APR-2002.

XX 21-SEP-2001; 2001WO-EP10998.

XX 28-SEP-2000; 2000EP-0308551.

XX (ALKU) AKZO NOBEL NV.

XX (MEDR-) MED RES COUNCIL.

XX (UYED-) UNIV EDINBURGH.

XX Sample CAM, Dundar DR;

XX WPI: 2002-362499/39.

XX P-PSDB; AAE21450.

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RESULT 8

AAA09454
 ID AAA09454 standard; DNA; 2253 BP.

XX AAA09454;

XX 10-AUG-2000 (first entry)

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XX DE Human prostate specific membrane antigen coding sequence.
XX KW prostate specific membrane antigen; splice variant; vaccination;
XX KM cytotoxic T-lymphocyte immunity; self-protein; cancer; breast cancer;
XX KW prostate cancer; cell-associated peptide antigen; foreign epitope; ss.
XX OS Homo sapiens.
XX FH Key
XX FT 1.2253
XX FT /tag= a
XX FT /product= PSM
XX FT CDS 172..2253
XX FT /tag= b
XX FT /product= PSM
XX FT /note= "splice variant"
XX PN WO200020027-A2.
XX PD 13-APR-2000.
XX PF 05-OCT-1999; 39WO-DK00525.
XX PR 05-OCT-1998; 38DK-0001261.
XX PR 20-OCT-1998; 38US-0105011.
XX PA (MEBI-) M & E BIOTECH AS.
XX PI Steinaa L, Mouritsen S, Nielsen KG, Haaning J, Leach D, Dalum I;
XX PI Gautam A, Birk P, Karlsson G;
XX DR MPI: 2000-349917/30.
XX DR P-PSDB: AAY92613.
XX PT Inducing immune responses to weakly immunogenic, tumor associated
XX PT peptide antigens for the treatment of breast and prostate cancer
XX PS Example 1; Page 180-184; 220pp; English.
XX XX The claims detail a method for inducing immune responses against weakly
XX CC immunogenic cell-associated peptide antigens (PA) such as those
XX CC associated with cancers (i.e. self-proteins), for example, human
XX CC prostate specific membrane antigen (PSM), heregulin 2 (Her2) and/or
XX CC fibroblast growth factor 8b (FGF8b). The method comprises effecting
XX CC simultaneous presentation by antigen producing cells (APCs) of the
XX CC animals immune system of: (1) at least 1 CTL (cytotoxic T-lymphocyte)
XX CC group derived from the PA and/or at least 1 B-cell group derived from the
XX CC cell-associated PA; and (2) at least 1 first T helper cell group which is
XX CC foreign to the animal. Analogues of human PSM, human Her2 and
XX CC human/murine FGF8b comprising a substantial part of all known and
XX CC predicted CTL and B-cell epitopes of the respective PA and including at
XX CC least one foreign T helper epitope are also claimed. The method is used
XX CC to treat prostate, prostate/breast or breast cancer when the PA is human
XX CC PSM, FGF8b and Her2, respectively.
XX SO Sequence 2253 BP; 670 A; 448 C; 527 G; 608 T; 0 other;
OY Query Match 100.0%; Score 27; DB 21; Length 2253;
Db Best Local Similarity 100.0%; Pred. No. 0.065;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
Db 2131 GCTCTGTTGATATGAAAGCAAGTG 2157
RESULT 9
AAC78599
ID AAC78599 standard; cDNA; 2558 BP.
AC AAC78599;
XX
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DT 08-FEB-2001 (first entry)
XX DE Human PRO739 nucleotide sequence SEQ ID NO:617.
XX KW Human; secreted protein; transmembrane protein; PRO; EST; cytosolic;
XX KW expressed sequence tag; detection; cancer; ss.
XX OS Homo sapiens.
XX PN WO200053756-A2.
XX PD 14-SEP-2000.
XX PF 18-FEB-2000; 2000WO-US04341.
XX PR 08-MAR-1999; 99WO-US05028.
XX PR 12-MAR-1999; 99US-0123957.
XX PR 29-MAR-1999; 99US-0126773.
XX PR 21-APR-1999; 99US-0130232.
XX PR 28-APR-1999; 99US-0131445.
XX PR 14-MAY-1999; 99US-0134287.
XX PR 23-JUN-1999; 99US-0141037.
XX PR 26-JUL-1999; 99US-0145698.
XX PR 29-OCT-1999; 99US-0162506.
XX PR 30-NOV-1999; 99WO-US28313.
XX PR 02-DEC-1999; 99WO-US28551.
XX PR 16-DEC-1999; 99WO-US30095.
XX PR 30-DEC-1999; 99WO-US31243.
XX PR 30-DEC-1999; 99WO-US31274.
XX PR 05-JAN-2000; 2000WO-US00219.
XX PR 06-JAN-2000; 2000WO-US00277.
XX PR 06-JAN-2000; 2000WO-US00376.
XX PA (GENTH) GENTECH INC.
XX PI Ashkenazi AJ, Baker KP, Bolstein D, Desnoyers L, Eaton DL;
XX PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gertlsen ME;
XX PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
XX PI Kijavlin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Pan MA;
XX PI Shelton DL, Stewart TA, Tumas D, Williams PM, Wood WI;
XX DR MPI: 2000-611443/58.
XX DR P-PSDB: AAB44334.
XX PT Novel PRO polypeptides and polynucleotides used in detection methods,
XX PT to target bioactive molecules to specific cells, and to modulate
XX PT cellular activities.
XX PS Claim 2; Fig 235; 636pp; English.
XX XX AAC78458 to AAC78599 represent polynucleotide and EST (expressed
XX CC sequence tag) sequences which encode secreted or transmembrane PRO
XX CC polypeptides. The PRO polynucleotides and polypeptides have cytosolic
XX CC activity. The polynucleotides and polypeptides can be used for detecting
XX CC the presence of PRO polypeptides in samples, for linking bioactive
XX CC molecules to cells and for modulating biological activities of cells,
XX CC using the polypeptides for specific targeting. The polypeptide targeting
XX CC can be used to kill the target cells, e.g. for the treatment of cancers.
XX CC The polypeptide pairs provide specific targeting of bioactive molecules
XX CC to cells. AAC78600 to AAC78987 represent PCR primers and probes used in
XX CC the isolation of the PRO polynucleotide sequences.
XX SO Sequence 2558 BP; 745 A; 509 C; 623 G; 681 T; 0 other;
OY Query Match 100.0%; Score 27; DB 21; Length 2558;
Db Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCTCTGTTGATATGAAAGCAAGTG 27
Db 2314 GCTCTGTTGATATGAAAGCAAGTG 2340
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RESULT 10
AAS45976
ID AAS45976 standard; cDNA; 2558 BP.
XX
AC AAS45976;
XX
DT 18-DEC-2001 (first entry)
XX
DE Human DNA encoding PRO polypeptide sequence #52.
XX
KW PRO polypeptide; mammary tumour; cancer; human; cattle; horse; sheep; ss;
KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder;
KW PCR primer.
XX
OS Homo sapiens.
XX
PN WO200168848-A2.
XX
PD 20-SEP-2001.
XX
PE 28-FEB-2001; 2001WO-US06520.
XX
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05841.
PR 03-MAR-2000; 2000US-187202P.
PR 06-MAR-2000; 2000US-186968P.
PR 14-MAR-2000; 2000US-189320P.
PR 14-MAR-2000; 2000US-189328P.
PR 15-MAR-2000; 2000WO-US06884.
PR 21-MAR-2000; 2000US-190828P.
PR 21-MAR-2000; 2000US-191007P.
PR 21-MAR-2000; 2000US-191048P.
PR 21-MAR-2000; 2000US-191314P.
PR 28-MAR-2000; 2000US-192655P.
PR 29-MAR-2000; 2000US-193032P.
PR 29-MAR-2000; 2000US-193033P.
PR 30-MAR-2000; 2000WO-US08439.
PR 04-APR-2000; 2000US-194449P.
PR 04-APR-2000; 2000US-194647P.
PR 11-APR-2000; 2000US-195975P.
PR 11-APR-2000; 2000US-196000P.
PR 11-APR-2000; 2000US-196187P.
PR 11-APR-2000; 2000US-196690P.
PR 18-APR-2000; 2000US-196820P.
PR 18-APR-2000; 2000US-198121P.
PR 18-APR-2000; 2000US-198585P.
PR 25-APR-2000; 2000US-199397P.
PR 25-APR-2000; 2000US-199550P.
PR 25-APR-2000; 2000US-199654P.
PR 03-MAY-2000; 2000US-201516P.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 02-JUN-2000; 2000US-209832P.
PR 28-JUL-2000; 2000WO-US20710.
PR 22-AUG-2000; 2000US-0644848.
PR 24-AUG-2000; 2000WO-US33328.
PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
XX
PA (GETH ) GENENTECH, INC.
XX
PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
XX
WPI: 2001-602746/68.
DR P-PSDB; AAU29075.
XX

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PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
PT presence of tumours, such as prostate and breast tumours, in mammals and
PT to screen for modulators of the compounds.
XX
PS Claim 2; Fig 103; 774pp; English.
XX
CC Sequences AAS45925-AAS46231 represent DNA molecules encoding and PCR
CC primers for PRO polypeptides of the invention. The sequences of the
CC invention can be used to detect the presence of a tumour in a mammal by
CC comparing the level of expression of a PRO polypeptide in a test sample
CC of cells from the animal and a control sample of normal cells, whereby a
CC higher level of expression in the test sample indicates the presence of a
CC tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep,
CC pigs, goats and rabbits but are preferably human. The polypeptides can be
CC used to stimulate tumour necrosis factor (TNF) alpha release from human
CC blood, when contacted with it. A specific polypeptide can be used to
CC stimulate the proliferation or differentiation of chondrocyte cells. The
CC PRO proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders.
XX
SQ Sequence 2558 BP; 745 A; 509 C; 623 G; 681 T; 0 other;
XX
Query Match 100.0%; Score 27; DB 22; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCTCTGTTGATATTGAAGCAAGCTG 27
DB 2314 GCTCTGTTGATATTGAAGCAAGCTG 2340
XX
RESULT 11
AAS45920
ID AAS45920 standard; cDNA; 2653 BP.
XX
AC AAS45920;
XX
DT 11-JAN-1995 (first entry)
XX
DE Prostate-specific membrane antigen cDNA.
XX
KW Prostate-specific membrane antigen; PSM; prostate cancer;
KW transmembrane glycoprotein; imaging; targeting; tumour detection;
KW antibody detection; ds.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT CDS 262..2514
FT /tag= a
FT /product= prostate specific membrane antigen (PSM)
XX
PN WO9409820-A.
XX
PD 11-MAY-1994.
XX
PF 05-NOV-1993; 93WO-US10624.
XX
PR 05-NOV-1992; 92US-0973337.
XX
PA (SLOK ) SLOAN KETTERING INST CANCER.
XX
PI Fair WR, Heston DW, Israeli RS;
XX
WPI: 1994-167129/20.
DR P-PSDB; AAR55097.
XX
PT Prostate-specific membrane antigen and DNA encoding it - is
PT useful for detecting hematogenous micro-metastatic tumour cells
PT and for identifying ligands which bind to PSM Ag
XX

```

XX Claim 3; Page 103-106; 196pp; English.
PS
XX AA065520 encodes a prostate specific membrane antigen (PSM, AAR55097).
CC The PSM coding sequence is useful for suppressing or modulating the
CC metastatic ability of prostate tumour cells to grow, or for
CC eliminating them. The protein is useful to identify or purify ligands
CC of the Ag. It is also an attractive target for Ab-directed imaging
CC and targeting of prostatic tumour deposits.
XX
SQ Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;
Query Match 100.0%; Score 27; DB 15; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
DB 2392 GCTCTGTTGATATTGAAGCAAGTG 2418
RESULT 12
ABR66204
ID ABR66204 standard; cDNA; 2653 BP.
XX
XX ABR66204;
XX
XX 24-SEP-2002 (first entry)
XX
XX cDNA encoding human prostate specific membrane antigen (PSMA) variant.
DE
XX Human; prostate specific membrane antigen; PSMA; cytosolic; antiviral;
XX immunostimulant; cell-mediated immune response; tumour; breast cancer;
XX virus infection; prostate cancer; colorectal cancer; pancreatic cancer;
XX lymphoma; leukemia; hepatitis virus; lentivirus; herpesvirus;
XX human immunodeficiency virus; HIV; flavivirus; pestivirus; gene; ss.
XX
XX Homo sapiens.
XX
XX
XX Key Location/Qualifiers
FH 262..2514
FT CDS /tag= a
FT /product= "Prostate specific membrane antigen (PSMA)
FT variant with signal sequence deleted"
XX
XX
XX MO200240059-A2.
XX
XX 23-MAY-2002.
XX
XX 01-NOV-2001; 2301WO-US45626.
XX
XX 01-NOV-2000; 2300US-0704232.
XX
XX (AMBI-) AMERICAN FOUND BIOLOGICAL RES INC.
XX (MINC/) MINCHEFF M S.
XX (LOUK/) LOUKINOV D I.
XX (ZOUB/) ZOUBAK S.
XX
XX Mincheff MS, Loukinov DI, Zoubak S;
XX
XX WPI; 2002-527524/56.
XX P-PSDB; AAU98920.
XX
XX Inducing a cell-mediated immune response against a target antigen,
XX reducing undesired cells and stimulating presentation of an antigen by
XX a cell, comprises administering a polynucleotide encoding a variant of
XX an antigen
XX
XX Example 1; Page 114-118; 146pp; English.
XX
XX The invention relates to a method of inducing a cell-mediated immune
XX response against a cell comprising a target antigen (I) in a subject,
XX treating a subject having undesired cells, for example tumour cells

CC or virally infected cells (C), reducing the number of (C) in a subject,
CC and stimulating presentation of (I) by a cell. This is done by
CC administering a polynucleotide (II) encoding a variant of (I), so that
CC (II) expressed in a cell and cell-mediated immune response is induced.
CC The method can be used to treat prostate cancer, breast cancer,
CC colorectal cancer and pancreatic cancer, as well as lymphomas and
CC leukemias. The method is also useful in treating chronic viral
CC infections such as those caused by hepatitis viruses, lentiviruses
CC (including human immunodeficiency virus (HIV)), herpesviruses and the
CC flaviviruses and pestiviruses. The present sequence represents the coding
CC sequence of human prostate specific membrane antigen (PSMA) variant
CC which has the signal sequence deleted, used as a target antigen in the
CC method of the invention.
XX
SQ Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;
Query Match 100.0%; Score 27; DB 24; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.066;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GCTCTGTTGATATTGAAGCAAGTG 27
DB 2392 GCTCTGTTGATATTGAAGCAAGTG 2418
RESULT 13
ABR64556
ID ABR64556 standard; DNA; 2653 BP.
XX
XX ABR64556;
XX
XX 18-JUN-2002 (first entry)
XX
XX Human benign prostatic hyperplasia gene #451.
XX
XX Human; benign prostatic hyperplasia; BPH; prostate cancer; gene; ds.
XX
XX Homo sapiens.
XX
XX
XX PN WO200212440-A2.
XX
XX 14-FEB-2002.
XX
XX 07-AUG-2001; 2001WO-US24708.
XX
XX 07-AUG-2000; 2000US-223323P.
XX 05-JUN-2001; 2001US-0873319.
XX
XX (GENE-) GENE LOGIC INC.
XX (NISB) JAPAN TOBACCO INC.
XX
XX Munger WE, Kulkarni P, Getzenberg RH, Waga I, Yamamoto J;
XX
XX WPI; 2002-257476/30.
XX
XX Identifying drugs for and diagnosing benign prostatic hyperplasia, by
XX detecting expression levels of one or more genes in prostate cells from
XX patient that are differentially regulated compared to normal prostate
XX cells
XX
XX Disclosure; Page 265-266; 444pp; English.
XX
XX The invention relates to a method of diagnosing (I) the onset or
XX progression of benign prostatic hyperplasia (BPH), or screening (II) for
XX or identifying an agent that modulates the onset or progression of BPH.
XX The method is based on changes in gene expression in BPH tissue isolated
XX from patients exhibiting different clinical states of prostate
XX hyperplasia as compared to normal prostate tissue. (I) comprises
XX detecting the expression levels of one or more genes in prostate cells
XX from the subject that are differentially regulated compared to normal
XX prostate cells. (II) comprises preparing a first gene expression profile
XX of BPH cells or BPH-like cell population, exposing the cells to the
XX agent, preparing a second gene expression profile of the agent exposed

CC cells, and comparing the first and second gene expression profiles.
 CC (1) is useful for diagnosing the onset or progression of BPH. (II) is
 CC useful for identifying an agent that modulates the onset or progression
 CC of BPH. The methods are useful to present information identifying
 CC the expression level in a tissue or cells, by comparing the expression
 CC level of genes given in the specification in the tissue or cells to the
 CC expression levels of at least one gene in the database, and displaying the
 CC compared to the expression level in BPH. Agents using (II) are useful for
 CC treating BPH or prostate cancer. ABK64106-ABK64860 represent human
 CC benign prostatic hyperplasia gene sequences of the invention.

SO Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;

Query Match 100.0%; Score 27; DB 24; Length 2653;
 Best Local Similarity 100.0%; Pred. No. 0.066;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAACCAAGTG 27
 DB 2392 GCTCTGTTGATATGAAACCAAGTG 2418

RESULT 14

ID ABL69670 standard; DNA; 2653 BP.

AC ABL69670;

DT 15-MAY-2002 (first entry)

DE Prostate cancer related gene sequence SEQ ID NO:8007.

KW Human; Cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
 KW stomach; lung; prostate; pancreas; carcinoma; antitumor; cancerous;
 KW cytostatic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma;
 KW gene; ds

OS Homo sapiens.

PN WO200194629-A2.

XX 13-DEC-2001.

PF 30-MAY-2001; 2001WO-US10838.

PR 05-JUN-2000; 2000US-209473P.

PR 18-SEP-2000; 2000US-209531P.

PR 18-SEP-2000; 2000US-233133P.

PR 20-SEP-2000; 2000US-234009P.

PR 20-SEP-2000; 2000US-234034P.

PR 22-SEP-2000; 2000US-234052P.

PR 22-SEP-2000; 2000US-234509P.

PR 25-SEP-2000; 2000US-234567P.

PR 25-SEP-2000; 2000US-234923P.

PR 25-SEP-2000; 2000US-235077P.

PR 25-SEP-2000; 2000US-235082P.

PR 25-SEP-2000; 2000US-235134P.

PR 26-SEP-2000; 2000US-235280P.

PR 26-SEP-2000; 2000US-235637P.

PR 27-SEP-2000; 2000US-235711P.

PR 27-SEP-2000; 2000US-235720P.

PR 27-SEP-2000; 2000US-235840P.

PR 27-SEP-2000; 2000US-235863P.

PR 28-SEP-2000; 2000US-236028P.

PR 28-SEP-2000; 2000US-236032P.

PR 28-SEP-2000; 2000US-236033P.

PR 28-SEP-2000; 2000US-236034P.

PR 28-SEP-2000; 2000US-236109P.

PR 28-SEP-2000; 2000US-236111P.

PR 29-SEP-2000; 2000US-236842P.
 PR 29-SEP-2000; 2000US-236891P.
 PR 02-OCT-2000; 2000US-237112P.
 PR 02-OCT-2000; 2000US-237113P.
 PR 02-OCT-2000; 2000US-237278P.
 PR 02-OCT-2000; 2000US-237284P.
 PR 02-OCT-2000; 2000US-237285P.
 PR 02-OCT-2000; 2000US-237295P.
 PR 03-OCT-2000; 2000US-237316P.
 PR 03-OCT-2000; 2000US-237425P.
 PR 03-OCT-2000; 2000US-237598P.
 PR 03-OCT-2000; 2000US-237604P.
 PR 03-OCT-2000; 2000US-237606P.
 PR 03-OCT-2000; 2000US-237608P.
 PR 01-NOV-2000; 2000US-244867P.
 PR 01-NOV-2000; 2000US-245084P.
 PA (AVAL-) AVALON PHARM.
 PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;
 PI Soppet DR, Weaver Z;
 DR WPI; 2002-188264/24.

PT Screening for anti-neoplastic agent involves exposing cells to a
 PT chemical agent to be tested for anti-neoplastic activity, and
 PT determining a change in expression of a gene of a signature gene set
 PS Claim 1; SEQ ID 8007; 44pp; English.

XX The present invention describes a method (M1) for screening for an
 CC anti-neoplastic agent. The method involves exposing cells to a chemical
 CC agent to be tested for anti-neoplastic activity, determining a change in
 CC expression of at least one gene (I) of a signature gene set, where (I)
 CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
 CC to ABL70110), or is at least 95% identical to (S), where a change in
 CC expression is indicative of anti-neoplastic activity. (I) has cytostatic
 CC activity and can be used in gene therapy. M1 can be used for screening
 CC an anti-neoplastic agent, and can be used for producing a product which
 CC is the data collected with respect to the anti-neoplastic agent as a
 CC result of M1, and the data is sufficient to convey the chemical
 CC structure and/or properties of the agent. M1 can be used in the
 CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
 CC oesophagical, ovarian, kidney, prostate or pancreatic cancer.
 CC CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
 CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
 CC carcinoma, papillary carcinoma and Wilms' tumour.

SO Sequence 2653 BP; 782 A; 524 C; 640 G; 707 T; 0 other;

Query Match 100.0%; Score 27; DB 24; Length 2653;
 Best Local Similarity 100.0%; Pred. No. 0.066;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGAAACCAAGTG 27
 DB 2392 GCTCTGTTGATATGAAACCAAGTG 2418

RESULT 15

ID AAT36785 standard; cDNA; 2654 BP.

AC AAT36785;

DT 04-NOV-1996 (first entry)

DE Prostate-specific membrane antigen cDNA.

KW Prostate-specific membrane antigen; PSM; promoter; prostate cancer;
 KW metastasis; gene therapy; diagnosis; ss.

OS Homo sapiens.

XX


```

FH Key                                     Location/Qualifiers
FT 5'UTR                                  1..261
FT                                         /*tag= a
FT CDS                                     262..2253
FT                                         /*tag= b
FT                                         /*product= PSM antigen
FT misc-feature                          114..380
FT                                         /*tag= c
FT                                         /note= "bases 114-380 (-147 to +109) are absent
FT                                         in PSM 'CDNA'"
FT polyA_signal                          2352..2357
FT                                         /*tag= d
FT
FT WO9626272-A1.
FT
FT 29-AUG-1996.
FT
FT 23-FEB-1996;                          $6WO-US02424.
FT
FT 02-JUN-1995;                          $5US-0470735.
FT 24-FEB-1995;                          $5US-0394152.
FT 02-JUN-1995;                          $5US-0466381.
FT
FT (SLOK ) SLOAN KITTERING INST CANCER RES.
FT
FT Falt WR, Heston MDW, Israeli RS;
FT
FT WPI: 1996-402365/40.
FT P-PSDB; AAM02234.
FT
FT DNA encoding alternatively spliced prostate-specific membrane
FT antigen - useful to develop prods. for detecting haematogenous
FT micrometastatic tumour cells, or prostate cancer progression
FT
FT Example 1; Fig 67A-D; 284pp; English.
FT
FT A CDNA clone (AAT36785) codes for human 100 kDa prostate-specific
FT membrane (PSM) antigen (AAM02234), an integral membrane glycoprotein
FT that is very highly expressed in prostatic tumours and metastases.
FT It was obtd. from lymph node carcinoma of prostate (LNCap) cell
FT mRNA by PCR amplification (see also AAT36795-808) and screening of an
FT LNCap CDNA library using an amplified cDNA partial clone as probe.
FT The cDNA can be used to provide probes and primers useful e.g. in
FT detecting haematogenous micrometastatic tumour cells, and determining
FT prostate cancer progression (see also AAT36827-30 and AAT36813-18),
FT and in gene therapy. An alternatively spliced PSM, PSM', has a
FT shorter cDNA sequence. PSM genomic DNA is given in AAT36786.
FT
FT SQ Sequence 2654 bp; 782 A; 525 C; 639 G; 708 T; 0 other;
FT
FT Query Match                               100.0%; Score 27; DB 17; Length 2654;
FT Best Local Similarity 100.0%; Pred. No. 0.066;
FT Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
FT
FT OY 1 GCTCTGTTTGATTTGAAGCAAGATG 27
FT ||||||||||||||||||||||||||||
FT Db 2392 GCTCTGTTTGATTTGAAGCAAGATG 2418

```

Search completed: April 14, 2003, 13:13:00
Job time : 100 secs

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GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 10:10:25 ; Search time 21 seconds
(without alignments)
394.299 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27

Sequence: 1 ggcctgttgatattgaagaagaagtg 27

Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 443362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database :

Issued_Patents_NA:*
1: /cgn2_6/prodata/1/lna/5A.COMB.seq:*
2: /cgn2_6/prodata/1/lna/5B.COMB.seq:*
3: /cgn2_6/prodata/1/lna/6A.COMB.seq:*
4: /cgn2_6/prodata/1/lna/6B.COMB.seq:*
5: /cgn2_6/prodata/1/lna/PCITUS.COMB.seq:*
6: /cgn2_6/prodata/1/lna/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	27	100.0	2653	1	US-08-325-553-1
2	27	100.0	2653	2	US-08-394-152A-1
3	25.4	94.1	2133	4	US-09-164-034B-1
4	18.2	67.4	1620	4	US-08-936-165A-124
5	18	66.7	3867	4	US-09-347-114A-81
6	18	66.7	9734	4	US-09-347-114A-80
7	17.4	64.4	612	2	US-08-308-952-9
8	17.4	64.4	612	2	US-08-308-952-13
9	17.4	64.4	612	4	US-09-124-141-12
10	17.4	64.4	612	4	US-09-124-141-12
11	17.4	64.4	1782	2	US-08-308-952-6
12	17.4	64.4	1782	4	US-09-124-141-6
13	17.4	64.4	1785	1	US-08-592-696-1
14	17.4	64.4	1785	2	US-08-308-952-10
15	17.4	64.4	1785	2	US-08-308-952-14
16	17.4	64.4	1785	3	US-09-027-536-1
17	17.4	64.4	1785	3	US-09-028-148-1
18	17.4	64.4	1785	4	US-09-124-141-14
19	17.4	64.4	1785	4	US-09-124-141-22
20	17.4	64.4	2265	1	US-08-242-689-1
21	17.4	64.4	2265	4	US-08-468-583-1
22	17.2	63.7	6171	1	US-08-459-568-1
23	17.2	63.7	6171	2	US-08-399-411-1
24	17.2	63.7	6171	3	US-08-516-859A-1
25	17.2	63.7	6171	4	US-09-586-472-1
26	17.2	63.7	6171	4	US-09-528-706-1
27	17	63.0	1071	4	US-08-858-207A-4

28	17	63.0	3914	1	US-08-117-373-11	Sequence 11, App1
29	17	63.0	13425	4	US-08-961-527-151	Sequence 151, App
30	16.8	62.2	656	4	US-08-896-164-62	Sequence 62, App1
31	16.8	62.2	4975	2	US-08-249-687C-1	Sequence 1, App1
32	16.8	62.2	4989	2	US-08-666-392A-3	Sequence 3, App1
33	16.8	62.2	4989	2	US-08-625-819-1	Sequence 1, App1
34	16.8	62.2	4989	3	US-08-755-558-4	Sequence 4, App1
35	16.8	62.2	4989	3	US-08-746-559A-1	Sequence 1, App1
36	16.8	62.2	4989	4	US-08-880-113A-9	Sequence 9, App1
37	16.8	62.2	4989	4	US-09-199-926-3	Sequence 3, App1
38	16.8	62.2	4989	4	US-08-864-641B-17	Sequence 17, App1
39	16.8	62.2	4989	4	US-09-389-855A-9	Sequence 9, App1
40	16.8	62.2	4989	4	US-09-668-822-9	Sequence 9, App1
41	16.8	62.2	4993	3	US-08-746-559A-3	Sequence 3, App1
42	16.6	61.5	878	4	US-09-222-575-82	Sequence 82, App1
43	16.6	61.5	1617	2	US-08-946-528-2	Sequence 2, App1
44	16.6	61.5	3552	4	US-09-157-210-3	Sequence 3, App1
45	16.6	61.5	4739	3	US-08-685-871-1	Sequence 1, App1

ALIGNMENTS

RESULT 1
US-08-325-553-1
Sequence 1, Application US/0832553
Patent No. 5538866
GENERAL INFORMATION:
APPLICANT: Israel, Ron S.
APPLICANT: Heston, Warren D.W.
TITLE OF INVENTION: THE PROSTATE-SPECIFIC MEMBRANE ANTIGEN
NUMBER OF SEQUENCES: 38
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham
STREET: 30 Rockefeller Plaza
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10112
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/325,553
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/07/973,337A
FILING DATE: 05 NOV 1992
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 1747/41426
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 977-9550
TELEFAX: (212) 664-0525
TELEX: 422523 COOP UI
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2653 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Carcinoma
IMMEDIATE SOURCE:

CLONE: Prostate-Specific Membrane Antigen
FEATURE:
NAME/KEY: CDS
LOCATION: 262..2511
US-08-325-553-1

Query Match 100.0%; Score 27; DB 1; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTGCTTTGATATGGAAGCAAGTG 27
|||||
DB 2392 GCTGCTTTGATATGGAAGCAAGTG 2418

RESULT 2
US-08-394-152A-1
Sequence 1, Application US/08394152A

PATENT No. 5935818
GENERAL INFORMATION:
APPLICANT: Israeli, Ron S.
APPLICANT: Heston, Warren D.W.
TITLE OF INVENTION: PROSTATE-SPECIFIC MEMBRANE ANTIGEN AND
TITLE OF INVENTION: USES THEREOF
NUMBER OF SEQUENCES: 48
CORRESPONDENCE ADDRESS:
ADDRESSEE: Cooper & Dunham LLP
STREET: 1185 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: United States of America
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM 330 466 DX2
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/394.152A
FILING DATE: 24-FEB-95
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: White, John P.
REGISTRATION NUMBER: 28,678
REFERENCE/DOCKET NUMBER: 41426-B
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 278-0400
TELEFAX: (212) 391-0525
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2653 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Carcinoma
IMMEDIATE SOURCE:
CLONE: Prostate-Specific Membrane Antigen
FEATURE:
NAME/KEY: CDS
LOCATION: 262..2511
US-08-394-152A-1

Query Match 100.0%; Score 27; DB 2; Length 2653;
Best Local Similarity 100.0%; Pred. No. 0.0044;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTGCTTTGATATGGAAGCAAGTG 27

|||||
DB 2392 GCTGCTTTGATATGGAAGCAAGTG 2418

US-09-164-034B-1
GENERAL INFORMATION:
APPLICANT: Mincheff, Milcho S.
Lounkov, I. Dmitri
Zouhak, Serguei

TITLE OF INVENTION: Immunotherapy of Cancer Through Expression
OF Truncated Tumor- or Tumor-Associated Antigen
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: William S. Ramsey,
Ramsey, Cook, Looper & Kurlander, LLC
STREET: 10420 Little Patuxent Parkway, Suite 250
CITY: Columbia
STATE: Maryland
COUNTRY: USA
ZIP: 21044

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 MB storage

COMPUTER: PC
OPERATING SYSTEM: Windows 95
SOFTWARE: Wordperfect 8

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/164.034B
FILING DATE: 30-SEP-1998

ATTORNEY/AGENT INFORMATION:
NAME: Ramsey, William S.
REGISTRATION NUMBER: 32,715
REFERENCE/DOCKET NUMBER: br11
TELECOMMUNICATION INFORMATION:
TELEPHONE: (410) 992-9660
TELEFAX: (410) 992-9540
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-164-034B-1

Query Match 94.1%; Score 25.4; DB 4; Length 2133;
Best Local Similarity 96.3%; Pred. No. 0.021;
Matches 26; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCTGCTTTGATATGGAAGCAAGTG 27
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DB 2005 GCCCTGTTGATATGGAAGCAAGTG 2031

RESULT 4
US-08-936-165A-124/C
Sequence 124, Application US/08936165A

PATENT No. 6348582
GENERAL INFORMATION:
APPLICANT: Black, Michael
APPLICANT: Burnham, Martin
APPLICANT: Hodgson, John
APPLICANT: Knowles, David
APPLICANT: Lonetto, Michael
APPLICANT: Nicholas, Richard
APPLICANT: Prity, Julie
APPLICANT: Reichard, Richard
APPLICANT: Rosenberg, Martin
APPLICANT: Ward, Judith
TITLE OF INVENTION: No. 6348582el Prokaryotic Polynucleotides,
TITLE OF INVENTION: Polypeptides and Their Uses
NUMBER OF SEQUENCES: 534
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406-0939

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: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/936,165A
: FILING DATE: 24-SEP-1997
: CLASSIFICATION: 536
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 60/027,032
: FILING DATE: 24-SEP-1996
: ATTORNEY/AGENT INFORMATION:
: NAME: Gimmil, Edward R
: REGISTRATION NUMBER: 38,891
: REFERENCE/DOCKET NUMBER: P50549
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 610-270-4478
: TELEFAX: 610-270-5090
: TELEX:
: INFORMATION FOR SEQ ID NO: 124:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1620 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: Genomic DNA
:
: US-08-936-165A-124
:
: Query Match          67.4%; Score 18.2; DB 4; Length 1620;
: Best Local Similarity 87.0%; Pred. No. 28;
: Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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: QY 2 CTCGTGTTGATATGGAAGCAAA 24
:   ||||| ||||| ||||| |||||
: DB 344 CTCGTGTTGATATGGAAGCAAA 322
:
: RESULT 5
: US-09-347-114A-81
: Sequence 81, Application US/09347114A
: Patent No. 6297014
: GENERAL INFORMATION:
: APPLICANT: Kent D. Taylor (Inventor)
: APPLICANT: Maren T. Scheuner (Inventor)
: APPLICANT: Jerome I. Rotter (Inventor)
: APPLICANT: Huiliang Yang (Inventor)
: TITLE OF INVENTION: Genetic Test to Determine
: FILE REFERENCE: P07 41878
: CURRENT APPLICATION NUMBER: US/09/347,114A
: CURRENT FILING DATE: 1999-07-02
: NUMBER OF SEQ ID NOS: 110
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 81
: LENGTH: 3867
: TYPE: DNA
: ORGANISM: Homo sapiens
:
: US-09-347-114A-81
:
: Query Match          66.7%; Score 18; DB 4; Length 3867;
: Best Local Similarity 80.8%; Pred. No. 38;
: Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
:
: QY 2 CTCGTGTTGATATGGAAGCAAGTG 27
:   ||||| ||||| ||||| |||||
: DB 462 CTCGTGTTGATATGGAAGCAAGTG 487
:
: RESULT 6
: US-09-347-114A-80
: Sequence 80, Application US/09347114A
: Patent No. 6297014
```

```

: GENERAL INFORMATION:
: APPLICANT: Kent D. Taylor (Inventor)
: APPLICANT: Maren T. Scheuner (Inventor)
: APPLICANT: Jerome I. Rotter (Inventor)
: APPLICANT: Huiliang Yang (Inventor)
: TITLE OF INVENTION: Genetic Test to Determine
: FILE REFERENCE: P07 41878
: CURRENT APPLICATION NUMBER: US/09/347,114A
: CURRENT FILING DATE: 1999-07-02
: NUMBER OF SEQ ID NOS: 110
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 80
: LENGTH: 9734
: TYPE: DNA
: ORGANISM: Homo sapiens
:
: US-09-347-114A-80
:
: Query Match          66.7%; Score 18; DB 4; Length 9734;
: Best Local Similarity 80.8%; Pred. No. 44;
: Matches 21; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
:
: QY 2 CTCGTGTTGATATGGAAGCAAGTG 27
:   ||||| ||||| ||||| |||||
: DB 6350 CTCGTGTTGATATGGAAGCAAGTG 6375
:
: RESULT 7
: US-08-308-952-9
: Sequence 9, Application US/08308952
: Patent No. 5837812
: GENERAL INFORMATION:
: APPLICANT: Harrison, Leonard
: APPLICANT: Honeyman, Margot
: APPLICANT: Cram, David
: APPLICANT: Dealzpurua, Henry
: TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT
: TITLE OF INVENTION: OF GLUTAMIC ACID DECARBOXYLASE AUTOANTIGEN
: NUMBER OF SEQUENCES: 25
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Scully, Scott, Murphy & Presser
: STREET: 400 Garden City Plaza
: CITY: Garden City
: STATE: New York
: COUNTRY: U.S.A.
: ZIP: 11530
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/308,952
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 839,805
: FILING DATE: 21-FEB-1992
: ATTORNEY/AGENT INFORMATION:
: NAME: Digilio, Frank S.
: REGISTRATION NUMBER: 31,346
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (516) 742-4343
: TELEFAX: (516) 742-4366
: TELEX: 230 901 SANS UR
: INFORMATION FOR SEQ ID NO: 9:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 612 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA to mRNA
```

US-08-308-952-9

Query Match: 64.4%; Score 17.4; DB 2; Length 612;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
DB 216 GTTCTGGCTGATGTGGAAGCAAGG 242

RESULT 8

US-08-308-952-13
Sequence 13, Application US/08308952
Patent No. 5837812

GENERAL INFORMATION:

APPLICANT: Harrison, Leonard

APPLICANT: Honeyman, Margot

APPLICANT: Cram, David

APPLICANT: Dealzpurua, Henry

TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT

TITLE OF INVENTION: OF GLUTAMIC ACID DECARBOXYLASE AUTOANTIGEN

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Scully, Scott, Murphy & Presser

STREET: 400 Garden City Plaza

CITY: Garden City

STATE: New York

COUNTRY: U.S.A.

ZIP: 11530

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/308,952

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 839,805

FILING DATE: 21-Feb-1992

ATTORNEY/AGENT INFORMATION:

NAME: Dig1910, Frank S.

REGISTRATION NUMBER: 31,346

TELECOMMUNICATION INFORMATION:

TELEPHONE: (516) 742-4343

TELEFAX: (516) 742-4366

TELEX: 230 901 SANS UR

INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:

LENGTH: 612 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA to mRNA

US-08-308-952-13

Query Match: 64.4%; Score 17.4; DB 2; Length 612;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
DB 216 GTTCTGGCTGATGTGGAAGCAAGG 242

RESULT 9

US-09-124-141-12
Sequence 12, Application US/09124141
Patent No. 6211352
GENERAL INFORMATION:

APPLICANT: Harrison, Leonard

APPLICANT: Honeyman, Margot

APPLICANT: Cram, David

APPLICANT: Dealzpurua, Henry

TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT OF GLUTAMIC

TITLE OF INVENTION: ACID DECARBOXYLASE AUTOANTIGEN ASSOCIATED DISEASES

FILE REFERENCE: Phillips, Ormonde & Fitzpatrick

CURRENT APPLICATION NUMBER: US/09/124,141

EARLIER FILING DATE: 1998-07-29

EARLIER APPLICATION NUMBER: 08/308,952

EARLIER FILING DATE: 1994-09-20

EARLIER APPLICATION NUMBER: 07/839,805

EARLIER FILING DATE: 1992-02-21

NUMBER OF SEQ ID NOS: 34

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 12

LENGTH: 612

TYPE: DNA

ORGANISM: Unknown Organism

FEATURE:

OTHER INFORMATION: Description of Unknown Organism: C-terminal

OTHER INFORMATION: fragment of Mouse Brain GAD (MBGAD56)

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(609)

US-09-124-141-12

Query Match: 64.4%; Score 17.4; DB 4; Length 612;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27
DB 216 GTTCTGGCTGATGTGGAAGCAAGG 242

RESULT 10

US-09-124-141-20

Sequence 20, Application US/09124141

Patent No. 6211352

GENERAL INFORMATION:

APPLICANT: Harrison, Leonard

APPLICANT: Honeyman, Margot

APPLICANT: Cram, David

APPLICANT: Dealzpurua, Henry

TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT OF GLUTAMIC

TITLE OF INVENTION: ACID DECARBOXYLASE AUTOANTIGEN ASSOCIATED DISEASES

FILE REFERENCE: Phillips, Ormonde & Fitzpatrick

CURRENT APPLICATION NUMBER: US/09/124,141

EARLIER FILING DATE: 1998-07-29

EARLIER APPLICATION NUMBER: 08/308,952

EARLIER FILING DATE: 1994-09-20

EARLIER APPLICATION NUMBER: 07/839,805

EARLIER FILING DATE: 1992-02-21

NUMBER OF SEQ ID NOS: 34

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 20

LENGTH: 612

TYPE: DNA

ORGANISM: Unknown Organism

FEATURE:

OTHER INFORMATION: Description of Unknown Organism: C-terminal

OTHER INFORMATION: Fragment of Human Brain GAD (HBGAD65)

FEATURE:

NAME/KEY: CDS

LOCATION: (1)..(609)

US-09-124-141-20

Query Match: 64.4%; Score 17.4; DB 4; Length 612;
Best Local Similarity 77.8%; Pred. No. 53;
Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATATGGAAGCAAGTG 27

Db 216 GTCTGCTGCTATGTGGAACCAAGG 242

RESULT 11

US-08-308-952-6
Sequence 6, Application US/08308952

Patent No. 5837812

GENERAL INFORMATION:

APPLICANT: Harrison, Leonard

APPLICANT: Honeyman, Margot

APPLICANT: Cram, David

APPLICANT: Deazipura, Henry

TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT

TITLE OF INVENTION: OF GLUTAMIC ACID DECARBOXYLASE AUTOANTIGEN

TITLE OF INVENTION: ASSOCIATED DISEASES

NUMBER OF SEQUENCES: 25

CORRESPONDENCE ADDRESSES:

ADDRESSEE: Scully, Scott, Murphy & Presser

STREET: 400 Garden City Plaza

CITY: Garden City

STATE: New York

COUNTRY: U.S.A.

ZIP: 11530

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Releasee #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/308,952

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 839,805

FILING DATE: 21-FEB-1992

ATTORNEY/AGENT INFORMATION:

NAME: DIGIGLIO, Frank S.

REGISTRATION NUMBER: 31,346

TELEPHONE: (516) 742-4343

TELEFAX: (516) 742-4366

TELEX: 230 901 SANS UR

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:

LENGTH: 1782 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA to mRNA

US-08-308-952-6

Query Match 64.4% Score 17.4; DB 2; Length 1782;

Best Local Similarity 77.8% Pred. No. 62;

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAACCAAGTG 27

Db 1386 GTCTGCTGCTATGTGGAACCAAGG 1412

RESULT 12

US-09-124-141-6

Sequence 6, Application US/09124141

Patent No. 621135;

GENERAL INFORMATION:

APPLICANT: Harrison, Leonard

APPLICANT: Honeyman, Margot

APPLICANT: Cram, David

APPLICANT: De Azipura, Henry

TITLE OF INVENTION: A METHOD FOR THE DIAGNOSIS AND TREATMENT OF GLUTAMIC

TITLE OF INVENTION: ACID DECARBOXYLASE AUTOANTIGEN ASSOCIATED DISEASES

FILE REFERENCE: Phillips, Ormonde & Fitzpatrick

CURRENT APPLICATION NUMBER: US/09/124,141

CURRENT FILING DATE: 1998-07-29

EARLIER APPLICATION NUMBER: 08/308,952

EARLIER FILING DATE: 1994-09-20

EARLIER APPLICATION NUMBER: 07/839,805

EARLIER FILING DATE: 1992-02-21

NUMBER OF SEQ ID NOS: 34

SOFTWARE: Patentin Ver. 2.1

SEQ ID NO 6

LENGTH: 1782

TYPE: DNA

ORGANISM: Unknown Organism

FEATURE:

OTHER INFORMATION: Description of Unknown Organism: Full Length Mouse

OTHER INFORMATION: Brain GAD

FEATURE:

NAME/KEY: CDS

LOCATION: (1) (1779)

US-09-124-141-6

Query Match 64.4% Score 17.4; DB 4; Length 1782;

Best Local Similarity 77.8% Pred. No. 62;

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATTGAACCAAGTG 27

Db 1386 GTCTGCTGCTATGTGGAACCAAGG 1412

RESULT 13

US-08-592-696-1

Sequence 1, Application US/08592696

Patent No. 5821334

GENERAL INFORMATION:

APPLICANT: Powers, Alvin C

TITLE OF INVENTION: "INSULIN-DEPENDENT DIABETES

TITLE OF INVENTION: MELITUS-SPECIFIC CHIMERIC POLYPEPTIDES"

NUMBER OF SEQUENCES: 6

CORRESPONDENCE ADDRESS:

ADDRESSEE: Needle & Rosenberg, P.C.

STREET: 127 Peachtree Street, Suite 1200

CITY: Atlanta

STATE: Georgia

COUNTRY: USA

ZIP: 30303

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/592,696

FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:

NAME: Selby Esq., Elizabeth

REGISTRATION NUMBER: 38,298

REFERENCE/DOCKET NUMBER: 22000.0043

TELECOMMUNICATION INFORMATION:

TELEPHONE: 404-688-9880

TELEFAX: 404-688-0770

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:

LENGTH: 1785 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

MOLECULE TYPE: other nucleic acid

US-08-592-696-1

Query Match 64.4% Score 17.4; DB 1; Length 1785;

Best Local Similarity 77.8% Pred. No. 62;

Matches 21; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 13:13:08 ; Search time 33.6667 Seconds
(without alignments)
703.471 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27
Sequence: 1 gctctgtttgattgaaagcaagtg 27

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapept 1.0

Searched: 593429 seqs, 438583890 residues

Total number of hits satisfying chosen parameters: 1186858

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published.Applications.NA.*

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12: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	27	100.0	27	9 US-09-821-734-17	Sequence 17, Appl
2	27	100.0	1037	10 US-09-925-300-86	Sequence 86, Appl
3	27	100.0	2558	9 US-09-978-295A-617	Sequence 617, App
4	27	100.0	2558	9 US-09-978-697-617	Sequence 617, App
5	27	100.0	2558	9 US-09-878-192A-617	Sequence 617, App
6	27	100.0	2558	9 US-09-999-832A-617	Sequence 617, App
7	27	100.0	2558	9 US-09-978-189-617	Sequence 617, App
8	27	100.0	2558	9 US-10-174-590-103	Sequence 617, App
9	27	100.0	2558	9 US-10-176-758-103	Sequence 103, App
10	27	100.0	2558	9 US-10-175-737-103	Sequence 103, App
11	27	100.0	2558	9 US-10-173-706-103	Sequence 103, App
12	27	100.0	2558	9 US-10-175-738-103	Sequence 103, App
13	27	100.0	2558	9 US-10-175-752-103	Sequence 103, App
14	27	100.0	2558	9 US-10-176-482-103	Sequence 103, App
15	27	100.0	2558	9 US-10-176-757-103	Sequence 103, App
16	27	100.0	2558	9 US-10-176-913-103	Sequence 103, App
17	27	100.0	2558	9 US-10-180-552-103	Sequence 103, App
18	27	100.0	2558	9 US-10-180-557-103	Sequence 103, App
19	27	100.0	2558	9 US-10-173-700-103	Sequence 103, App

20	27	100.0	2558	9 US-10-174-572-103	Sequence 103, App
21	27	100.0	2558	9 US-10-174-579-103	Sequence 103, App
22	27	100.0	2558	9 US-10-174-582-103	Sequence 103, App
23	27	100.0	2558	9 US-10-174-588-103	Sequence 103, App
24	27	100.0	2558	9 US-10-175-739-103	Sequence 103, App
25	27	100.0	2558	9 US-10-175-740-103	Sequence 103, App
26	27	100.0	2558	9 US-10-175-743-103	Sequence 103, App
27	27	100.0	2558	9 US-10-176-488-103	Sequence 103, App
28	27	100.0	2558	9 US-10-176-492-103	Sequence 103, App
29	27	100.0	2558	9 US-10-176-747-103	Sequence 103, App
30	27	100.0	2558	9 US-10-176-750-103	Sequence 103, App
31	27	100.0	2558	9 US-10-176-985-103	Sequence 103, App
32	27	100.0	2558	9 US-10-176-987-103	Sequence 103, App
33	27	100.0	2558	9 US-10-176-991-103	Sequence 103, App
34	27	100.0	2558	9 US-10-176-992-103	Sequence 103, App
35	27	100.0	2558	9 US-10-176-993-103	Sequence 103, App
36	27	100.0	2558	9 US-10-184-558-103	Sequence 103, App
37	27	100.0	2558	9 US-10-173-695-103	Sequence 103, App
38	27	100.0	2558	9 US-10-173-697-103	Sequence 103, App
39	27	100.0	2558	9 US-10-173-705-103	Sequence 103, App
40	27	100.0	2558	9 US-10-174-576-103	Sequence 103, App
41	27	100.0	2558	9 US-10-174-585-103	Sequence 103, App
42	27	100.0	2558	9 US-10-174-586-103	Sequence 103, App
43	27	100.0	2558	9 US-10-175-747-103	Sequence 103, App
44	27	100.0	2558	9 US-10-176-481-103	Sequence 103, App
45	27	100.0	2558	9 US-10-176-485-103	Sequence 103, App

ALIGNMENTS

RESULT 1
US-09-821-734-17
Sequence 17, Application US/09821734
Publication No. US20030027246A1
GENERAL INFORMATION:
APPLICANT: Chong, Pele
APPLICANT: Pedyczak, Artur
TITLE OF INVENTION: Immunogenic Peptides Derived from Prostate-Specific Membrane
FILE REFERENCE: 11014-22
CURRENT APPLICATION NUMBER: US/09/821,734
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: US 60/193,386
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.0
SEQ ID NO 17
LENGTH: 27
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: CLP337
US-09-821-734-17
Query Match 100.0%; Score 27; DB 9; Length 27;
Best Local Similarity 100.0%; Pred. No. 0.017;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 1 GCTCTGTTTGAATTGAAAGCAAGTGTG 27
1 GCTCTGTTTGAATTGAAAGCAAGTGTG 27
RESULT 2
US-09-925-300-86
Sequence 86, Application US/09925300
Patent No. US20020151681A1
GENERAL INFORMATION:
APPLICANT: Craig Rosen,
APPLICANT: Steve Ruben
TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies

FILE REFERENCE: PA101
CURRENT APPLICATION NUMBER: US/09/925.300
CURRENT FILING DATE: 2001-08-10
PRIOR APPLICATION NUMBER: PCT/US00/05988
PRIOR FILING DATE: 2000-03-08
PRIOR APPLICATION NUMBER: 60/124,270
PRIOR FILING DATE: 1999-03-12
NUMBER OF SEQ ID NOS: 1890
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 86
LENGTH: 1037
TYPE: DNA
ORGANISM: Homo sapiens
US-09-925-300-86

Query Match 100.0%; Score 27; DB 10; Length 1037;
Best Local Similarity 100.0%; Pred. No. 0.039;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGGAAGCAAGTG 27
Db 780 GCTCTGTTGATATGGAAGCAAGTG 806

RESULT 3
US-09-978-295A-617
Sequence 617, Application US/09978295A
Patent No. US2002015606A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gertsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James.
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C11
CURRENT APPLICATION NUMBER: US/09/978,295A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10

PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
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PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080328
PRIOR FILING DATE: 1998-04-01
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PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081071
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081955
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081817
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081819
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081952
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/081838

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;; PRIOR APPLICATION NUMBER: 60/082568
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082569
;; PRIOR FILING DATE: 1998-04-21
;; PRIOR APPLICATION NUMBER: 60/082704
;; PRIOR FILING DATE: 1998-04-22
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Best Local Similarity 100.0%; Pred No. 0.049; 0; Indels 0; Gaps 0;
Matches 27; Conservative 0; Mismatches 0;
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Db 2314 GCTCTGTTGATATTGAAGCAAGTG 2340
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US-09-978-697-617
Sequence 617, Application US/09978697
Patent No. US20020169284A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC27
CURRENT APPLICATION NUMBER: US/09/978,697
CURRENT FILING DATE: 2001-10-16
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RESULT 5

US-09-978-192A-617
Sequence 617, Application US/09978192A
Patent No. US2002017753A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
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APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC9
CURRENT APPLICATION NUMBER: US/09/978,192A
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pctd. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

0Y 1 GCTCTGTTGATTTGAAGCAAGTG 27
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Db 2314 GCTCTGTTGATTTGAAGCAAGTG 2340
RESULT 6
US-09-999-832A-617
Sequence 617, Application US/09999832A
Publication No. US20020192706A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
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APPLICANT: Godowski, Paul J.
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APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
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APPLICANT: Kuo, Sophia S.
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APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C63
CURRENT FILING DATE: 2001-10-24
PRIOR FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 09/918585
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PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085323
PRIOR FILING DATE: 1998-05-13
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTTCAATTGAAGCAAGTG 27
|||||
Db 2314 GCTCTGTTTCAATTGAAGCAAGTG 2340

RESULT 7
US-09-978-189-617
Sequence 617, Application US/09978189
Publication No. US20030004102A1

GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerbner, Hanspeter
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC7
CURRENT APPLICATION NUMBER: US/09/978,189
PRIOR FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065111
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/074450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079689
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079663
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079728
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079920
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/079923
PRIOR FILING DATE: 1998-03-30
PRIOR APPLICATION NUMBER: 60/080105
PRIOR FILING DATE: 1998-03-31
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PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080165
PRIOR FILING DATE: 1998-03-31
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PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
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PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080334
PRIOR FILING DATE: 1998-04-01
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PRIOR FILING DATE: 1998-04-08
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PRIOR FILING DATE: 1998-04-08
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PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
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PRIOR FILING DATE: 1998-04-09
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PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082796
PRIOR FILING DATE: 1998-04-23
PRIOR APPLICATION NUMBER: 60/083336
PRIOR FILING DATE: 1998-04-27
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083392
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083545


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; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083554
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083558
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083559
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083500
; PRIOR FILING DATE: 1998-04-29
; PRIOR APPLICATION NUMBER: 60/083742
; PRIOR FILING DATE: 1998-04-30
; PRIOR APPLICATION NUMBER: 60/084366
; PRIOR FILING DATE: 1998-05-05
; PRIOR APPLICATION NUMBER: 60/084414
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084441
; PRIOR FILING DATE: 1998-05-06
; PRIOR APPLICATION NUMBER: 60/084637
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084639
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084640
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084598
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084600
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084627
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/084643
; PRIOR FILING DATE: 1998-05-07
; PRIOR APPLICATION NUMBER: 60/085339
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085338
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085323
; PRIOR FILING DATE: 1998-05-13
; PRIOR APPLICATION NUMBER: 60/085582
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085700
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085689
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085579
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085580
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085573
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match          100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATTTGAAGCAAGTG 27
DB 2314 GCTCTGTTGATTTGAAGCAAGTG 2340

RESULT 8
US-10-174-590-103
; Sequence 103, Application US/10174590
; Publication No. US20030008352A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.

```

```

; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C42
; CURRENT APPLICATION NUMBER: US/10/174,590
; PRIOR FILING DATE: 2002-06-18
; PRIOR APPLICATION removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 103
; LENGTH: 2558
; TYPE: DNA
; ORGANISM: Homo Saplen
US-10-174-590-103

Query Match          100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATTTGAAGCAAGTG 27
DB 2314 GCTCTGTTGATTTGAAGCAAGTG 2340

RESULT 9
US-10-176-758-103
; Sequence 103, Application US/10176758
; Publication No. US20030008353A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C104
; CURRENT APPLICATION NUMBER: US/10/176,758
; PRIOR FILING DATE: 2002-06-21
; PRIOR APPLICATION removed - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 103
; LENGTH: 2558
; TYPE: DNA
; ORGANISM: Homo Saplen
US-10-176-758-103

Query Match          100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATTTGAAGCAAGTG 27
DB 2314 GCTCTGTTGATTTGAAGCAAGTG 2340

RESULT 10
US-10-175-737-103
; Sequence 103, Application US/10175737
; Publication No. US20030013153A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc

```

```
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C50
CURRENT APPLICATION NUMBER: US/10/175,737
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See file Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-175-737-103
```

```
Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 2558;
Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
OY 1 GCTCTGTTTGATATTGAAGCAAGTG 27
Db 2314 GCTCTGTTTGATATTGAAGCAAGTG 2340
```

```
RESULT 11
US-10-173-706-103
Sequence 103, Application US/10173706
Publication No. US20030022293A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C7
CURRENT APPLICATION NUMBER: US/10/173,706
CURRENT FILING DATE: 2002-06-17
Prior Application removed - See file Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-173-706-103
```

```
Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 2558;
Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 GCTCTGTTTGATATTGAAGCAAGTG 27
Db 2314 GCTCTGTTTGATATTGAAGCAAGTG 2340
```

```
RESULT 12
US-10-175-738-103
Sequence 103, Application US/10175738
Publication No. US20030022294A1
GENERAL INFORMATION:
```

```
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C45
CURRENT APPLICATION NUMBER: US/10/175,738
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See file Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-175-738-103
```

```
Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 2558;
Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 GCTCTGTTTGATATTGAAGCAAGTG 27
Db 2314 GCTCTGTTTGATATTGAAGCAAGTG 2340
```

```
RESULT 13
US-10-175-752-103
Sequence 103, Application US/10175752
Publication No. US20030022295A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C60
CURRENT APPLICATION NUMBER: US/10/175,752
CURRENT FILING DATE: 2002-06-19
Prior Application removed - See file Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-175-752-103
```

```
Query Match
Best Local Similarity 100.0%; Score 27; DB 9; Length 2558;
Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
OY 1 GCTCTGTTTGATATTGAAGCAAGTG 27
Db 2314 GCTCTGTTTGATATTGAAGCAAGTG 2340
```

```
RESULT 14
US-10-176-482-103
```

Sequence 103, Application US/10176482
Publication No. US20030022296A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C70
CURRENT APPLICATION NUMBER: US/10/176,482
CURRENT FILING DATE: 2002-06-20
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-176-482-103

Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGTAAGCAAGTG 27
|||||
Db 2314 GCTCTGTTGATATGTAAGCAAGTG 2340

RESULT 15

US-10-176-757-103
Sequence 103, Application US/10176757
Publication No. US20030022297A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C86
CURRENT APPLICATION NUMBER: US/10/176,757
CURRENT FILING DATE: 2002-06-20
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 103
LENGTH: 2558
TYPE: DNA
ORGANISM: Homo Sapien
US-10-176-757-103

Query Match 100.0%; Score 27; DB 9; Length 2558;
Best Local Similarity 100.0%; Pred. No. 0.049;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTCTGTTGATATGTAAGCAAGTG 27
|||||
Db 2314 GCTCTGTTGATATGTAAGCAAGTG 2340

Search completed: April 14, 2003, 15:59:23
Job time.: 34.6667 secs

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GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 14, 2003, 09:33:49 ; Search time 828.5 Seconds
(without alignments)
527.795 Million cell updates/sec

Title: US-09-821-734-17

Perfect score: 27

Sequence: 1 gctcgttgcataatgaagcaagtg 27

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapept 1.0

Searched: 16151066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
EST :
1: em_estba:*
2: em_esthum:*
3: em_estlin:*
4: em_estinu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hlc:*
9: gb_est1:*
10: gb_est2:*
11: gb_hlc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estrom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_hiv:*
20: em_gss_pln:*
21: em_gss_vrt:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rtd:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
c 1	27	100.0	243	9	A1478207
c 2	27	100.0	300	9	A1648702
c 3	27	100.0	305	12	BG203378
c 4	27	100.0	321	27	BG221564
c 5	27	100.0	350	9	A1424589
c 6	27	100.0	352	12	BF673465

c 7	27	100.0	390	9	AA435800
c 8	27	100.0	395	9	AA631303
c 9	27	100.0	420	9	AA879028
c 10	27	100.0	426	10	AM000926
c 11	27	100.0	432	10	AM168915
c 12	27	100.0	442	14	N48056
c 13	27	100.0	452	14	N64840
c 14	27	100.0	458	9	A1768508
c 15	27	100.0	462	9	AA897668
c 16	27	100.0	467	9	A1356718
c 17	27	100.0	471	9	A1474492
c 18	27	100.0	478	10	AM207840
c 19	27	100.0	494	9	A1690667
c 20	27	100.0	545	14	BQ027857
c 21	27	100.0	548	12	BF438644
c 22	27	100.0	618	9	A1766427
c 23	27	100.0	659	13	BM537110
c 24	27	100.0	690	9	A1672408
c 25	27	100.0	720	12	BF940223
c 26	27	100.0	770	9	A1050871
c 27	27	100.0	783	13	B1759533
c 28	27	100.0	1019	9	AL532691
c 29	26	96.3	296	14	NS2932
c 30	25.4	94.1	507	12	BG187881
c 31	25.4	94.1	745	13	B1183520
c 32	25.4	94.1	776	12	BG208080
c 33	23.8	88.1	133	12	BE845816
c 34	23.8	88.1	514	9	A1094658
c 35	22.2	82.2	421	10	AM484493
c 36	21.8	80.7	218	10	AM091367
c 37	21.8	80.7	352	10	AM120416
c 38	21.8	80.7	353	14	BQ487160
c 39	21.8	80.7	393	9	A1612422
c 40	21.8	80.7	399	14	BQ487245
c 41	21.8	80.7	468	10	BE051781
c 42	21.8	80.7	621	10	AM225047
c 43	21.8	80.7	807	12	BG319736
c 44	21.8	80.7	1065	11	AY110560
c 45	21	77.8	928	9	AL563970

ALIGNMENTS

RESULT 1
LOCUS A1478207/c
DEFINITION Lm50d04.x1 NCI-CGAP-KID11 Homo sapiens CDNA clone IMAGE:2161543 3'
similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN)
):contains Alu repetitive element;; mRNA sequence.

ACCESSION A1478207.1 GI:4371433
VERSION
KEYWORDS
SOURCE
ORGANISM

human.

Homo sapiens
Eukaryota: Metazoa: Chordata: Craniata: Vertebrata: Euteleostomi;
Mammalia: Eutheria: Primates: Catarrhini: Homnidae: Homo.

REFERENCE
AUTHORS
TITLE
TUMOR
JOURNAL
COMMENT

Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: ggapbs-remail.nih.gov

Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.

CDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Library Arrayed by: Greg Lennon, Ph.D.

DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution Information can be
found through the I.M.A.G.E. Consortium/LINL at:

www.bio.lnll.gov/dbcrp/image/image.html

Seq primer: -40UP from Gibco.

FEATURES

Location/Qualifiers

1. 243

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone_lib="NCI_CGAP_Kid11"

/lab_host="DH10B"

/note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with a modified polylinker. Site 1: Not 1; Site 2: Eco RI; Plasmid DNA from the normalized library NCI_CGAP_Kid3 was prepared, and ss-circles were made in vitro. Following HAP hybridization, this DNA was used as tracer in a subtractive reaction. The driver was PCR-amplified cDNAs from a pool of 5,000 clones made from the same library (clonids 132376-132391, 145607-145675), and (1500552-1502855). Subtraction by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 75 a 61 c 30 g 77 t

Query Match 100.0%; Score 27; DB 9; Length 243;
Best Local Similarity 100.0%; Pred. No. 0.53;

Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
Db 239 GCTCTGTTGATTTGAAGCAAGTG 213

RESULT 2 300 bp mRNA linear EST 16-DEC-1999
A1648702
LOCUS t665h01.x1 NCI_CGAP.U1 Homo sapiens CDNA clone IMAGE:2274481 3'
DEFINITION similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);
mRNA sequence.

ACCESSION A1648702 GI:4729536
VERSION A1648702
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1. (bases 1 to 300)
TITLE NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
JOURNAL National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
COMMENT Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: rsraus@remail.nih.gov
Tissue Procurement: Christopher Moskaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
DNA Sequencing by: Greg Lennon, Ph.D.
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www.bio.llnl.gov/bdrp/image/image.html
Insert length: 964 Std Error: 0.00
Seq primer: -40UP from Gibco
High quality sequence stop: 73.
Location/Qualifiers

1. 300
Location/Qualifiers

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone_lib="NCI_CGAP_Kid11"

/lab_host="DH10B"

/note="Organ: uterus; Vector: PCMV-SPORE6; Site 1: SalI;
Average insert size 1.75 kb. Life Technologies catalog #:
11538-014"

BASE COUNT 85 a 72 c 43 g 100 t

Query Match 100.0%; Score 27; DB 9; Length 300;
Best Local Similarity 100.0%; Pred. No. 0.56;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
Db 248 GCTCTGTTGATTTGAAGCAAGTG 222

RESULT 3 305 bp mRNA linear EST 21-APR-2001
BG203378
LOCUS RST22759 Athersys RAGE Library Homo sapiens CDNA, mRNA sequence.
DEFINITION BG203378
ACCESSION BG203378 GI:13725065
VERSION BG203378
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1. (bases 1 to 305)
TITLE Harrington, J.J., Sherf, B., Rundlett, S., Jackson, P.D., Perry, R.,
Lerner, L., Costanzo, D., McElligott, K., Booser, S., Mays, R., Smith,
J., Danzig, J. and Ducar, M.
Creation of genome-wide protein expression libraries using random
activation of gene expression
Nat Biotechnol. 19 (5), 440-445 (2001).
21227151
COMMENT Contact: Scott J. Cain
Athersys, Inc.
3201 Carnegie Ave, Cleveland, OH 44115, USA
Tel: 216 431 9900
Fax: 216 361 9596
Email: scain@atersys.com
High quality sequence stop: 305.
Location/Qualifiers

1. 305
Location/Qualifiers

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone_lib="Athersys RAGE Library"

/cell_line="HT1080"

/note="See 'Creation of Genome-wide Protein Expression
Libraries using Random Activation of Gene Expression',
Nature Biotechnology, in press. Note that even though the
cell type indicated is HT1080, since a random activation
method was used, these sequence tags are not necessarily
expressed in HT1080 under normal circumstances."

BASE COUNT 87 a 78 c 48 g 91 t

Query Match 100.0%; Score 27; DB 12; Length 305;
Best Local Similarity 100.0%; Pred. No. 0.56;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
Db 239 GCTCTGTTGATTTGAAGCAAGTG 213

RESULT 4 321 bp mRNA linear EST 21-APR-2001
BG221564
LOCUS RST41377 Athersys RAGE Library Homo sapiens CDNA, mRNA sequence.
DEFINITION BG221564
ACCESSION BG221564 GI:13747585
VERSION BG221564
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

Tissue Procurement: Michael J. Brownstein, M.D., Ph.D., Michael R. Emmert-Buck, M.D., Ph.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/BLBL at:
www.bio.lnbl.gov/bbrp/image/image.html
 Seq primer: -40bp from Gibco
 High quality sequence stop: 243.

```

/db_xref="taxon:9606"
/cclone="IMAGE:4272947"
/cclone_lib="NIH-MGC_83"
/lab_host="DH10B (T1 phage-resistant)"
/notes="Organ: prostate; Vector: pDNR-LIB (Clontech);
Site_1: sfil1 (ggcgcgcctggcgc); Site_2: sfil1 (ggcgcattggcgc
), 5' and 3' adaptors were used in cloning as follows: 5'
adaptor sequence: 5'-CACGGCCATTATGGCC-3' and 3' adaptor
sequence: 5'-ATTTCAGAGGCCGAGCGCCGACGAG-CT(30)BN-3'
(where B = A, C, or G and N = A, C, G, or T). Average
insert size 1.4 kb (range 0.5-4.0 kb). 14/15 colonies
contained inserts by PCR. This library was enriched for
full-length clones and was constructed by Clontech

```

BASE COUNT 134 a 51 c 79 g 88 t
 ORIGIN

Query Match
 Best Local Similarity 100.0%; Score 27; DB 12; Length 352;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 79 GCCTGTTGATTTGAAGCAAGTG 27
 GCCTGTTGATTTGAAGCAAGTG 105

RESULT 7
 LOCUS AA435800/c
 DEFINITION 390 bp mRNA linear EST 09-NOV-1997
 3' similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN)
 AA435800
 VERSION AA435800.1 GI:2140714
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S.,
 Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin
 White, Y., Wylie, T., Waterston, R., Wooley, M., Tan, F., Theising, B.,
 Mashu-NCI human EST Project
 Unpublished (1997)
 Contact: Wilson RK
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LINL; contact the
 IMAGE Consortium (info@image.lnl.gov) for further information.
 Insert length: 1837 Std Error: 0.00
 Seq primer: 41ml3 fwd. ET from Amerisham
 High quality sequence stop: 359.
 Location/Qualifiers
 1. 390

FEATURES
 source

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_lib="NCI-CGAP-C09"
 /tissue_type="Colon tumor RER"
 /lab_host="DH10B"
 /note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA
 was prepared from mRNA obtained from Clontech Laboratories
 'Inc.' and primed with a Not I - oligo(dT) primer [5']
 TGTACCAATCGACAGCGAGCGCCGCCAATTTTCTTTTCTTTT 3.1.
 Double-stranded cDNA was ligated to Eco RI adaptors
 (Pharmacia), digested with Not I and Eco RI sites of the Not I
 and Eco RI sites of the modified pT73 vector. Library
 went through one round of normalization to Cot5, and was
 constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT 118 a 89 c 63 g 120 t

Query Match
 Best Local Similarity 100.0%; Score 27; DB 9; Length 390;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 237 GCCTGTTGATTTGAAGCAAGTG 27
 GCCTGTTGATTTGAAGCAAGTG 211

RESULT 8
 LOCUS AA631303/c
 DEFINITION 395 bp mRNA linear EST 31-OCT-1997
 n90907.s1 NCI-CGAP C09 Homo sapiens cDNA clone IMAGE:1159644 3'
 mRNA sequence.
 AA631303
 VERSION AA631303.1 GI:2553914
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 1 (bases 1 to 395)
 NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished (1997).
 Contact: Robert Strausberg, Ph.D.
 Email: cgaps-remail.nih.gov
 Tissue Procurement: Ilan Kirsch, M.D., Michael R. Emmert-Buck, M.D.,
 Ph.D.
 CDNA Library Preparation: M. Bento Soares, Ph.D.
 DNA Sequencing by: Greg Lennon, Ph.D.
 Clone distribution: NCI-CGAP University Genome Sequencing Center
 found through the I.M.A.G.E. Consortium/LINL at:
 www.bio.lnl.gov/bbtp/image/image.html
 Insert length: 2523 Std Error: 0.00
 Seq primer: 40ml3 fwd. ET from Amerisham
 High quality sequence stop: 395.
 Location/Qualifiers
 1. 395

FEATURES
 source

/organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone_lib="NCI-CGAP-C09"
 /tissue_type="Colon tumor RER"
 /lab_host="DH10B"
 /note="Organ: Colon; Vector: pT73D-Pac (Pharmacia) with a
 RER+ colon tumor, and was then primed with a Not I
 oligo(dT) primer. Double-stranded cDNA was prepared from
 RI adaptors (Pharmacia), digested with Not I and Eco
 into the Not I and Eco RI sites of the modified pT73
 vector. Library is not normalized. Library was
 constructed by Bento Soares and M. Fatima Bonaldo (Soares4
)."

BASE COUNT 116 a 89 c 61 g 129 t

Query Match
 Best Local Similarity 100.0%; Score 27; DB 9; Length 395;
 Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 247 GCCTGTTGATTTGAAGCAAGTG 27
 GCCTGTTGATTTGAAGCAAGTG 221

RESULT 9
 LOCUS AA879028/c
 DEFINITION 420 bp mRNA linear EST 25-MAR-1998
 n987e05.s1 NCI-CGAP P-12 Homo sapiens cDNA clone IMAGE:1253600
 mRNA sequence.
 AA879028
 VERSION AA879028.1 GI:2987993
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens

REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 420)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: W. Douglas Figg, Ph.D., Paul H. Dury, M.D.,
Rodrigo F. Chuqui, M.D., Michael R. Emmert-Buck, M.D., Ph.D.,
CDNA Library Preparation: David B. Krizman, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bdrrp/image/image.html
Seq primer: -40m13 fwd. RT from Amersham
High quality sequence stop: 84.

FEATURES
source

1..420
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1253600"
/clone_1lb="NCI-CGAP_Prl2"
/sex="male"
/tissue_type="metastatic prostate bone lesion"
/lab_host="DH10B"
/note="Vector: pAMP10; mRNA made from metastatic prostate
lesion of the bone, cDNA made by oligo-dT priming.
Non-directionally cloned. Size-selected on agarose gel,
average insert size 600 bp. Library made by D. Krizman,
NIH."

BASE COUNT 112 a 99 c 79 g 130 t

ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 420;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
DB 82 GCTCTGTTGATTTGAAGCAAGTG 56

RESULT 10
AM000926/c 426 bp mRNA linear EST 08-MAR-2000
LOCUS
DEFINITION
w:90e01.x1 NCI-CGAP_K1d11 Homo sapiens cDNA clone IMAGE:2494968 3'
similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);,
mRNA sequence.
AM000926
AM000926.1 GI:5847842
EST.
KEYWORDS
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 426)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bdrrp/image/image.html

FEATURES
source

Insert Length: 523 Std Error: 0.00
Seq primer: -40UP from Gibco.
Location/Qualifiers
1..426
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2494968"
/clone_1lb="NCI-CGAP_K1d11"
/lab_host="DH10B"
/note="Organ: kidney; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site: 1: Not 1; Site: 2: Eco RI;
Plasmid DNA from the normalized library NCI-CGAP_K1d3 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(cloneids 132376-1323911, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Fatima Bonaldo."

BASE COUNT 126 a 98 c 64 g 138 t

ORIGIN

Query Match 100.0%; Score 27; DB 10; Length 426;
Best Local Similarity 100.0%; Pred. No. 0.6;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
DB 248 GCTCTGTTGATTTGAAGCAAGTG 222

RESULT 11
AM168915/c 432 bp mRNA linear EST 12-NOV-1999
LOCUS
DEFINITION
xj15b10.x1 NCI-CGAP_Ut2 Homo sapiens cDNA clone IMAGE:2657275 3'
similar to gb:M99487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);,
mRNA sequence.
AM168915
AM168915.1 GI:6400440
EST.
KEYWORDS
SOURCE
ORGANISM
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
1 (bases 1 to 432)
NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Christopher Moskalko, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: Greg Lennon, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bdrrp/image/image.html
Seq primer: -40UP from Gibco
High quality sequence stop: 417.

FEATURES
source

1..432
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2657275"
/clone_1lb="NCI-CGAP_Ut2"
/tissue_type="moderately-differentiated endometrial
adenocarcinoma, 3 pooled tumors"
/lab_host="DH10B"
/note="Organ: uterus; Vector: pCMV-SPORE6; Site: 1: SalI;
Site: 2: NotI; Cloned unidirectionally. Primer: Oligo dT.
Average insert size 1.85 kb. Life Technologies catalog #:

Query Match	100.0%;	Score 27;	DB 10;	Length 432;
Best Local Similarity	100.0%;	Pred. No. 0.6;		
Matches 27;	Conservative 0;	Mismatches 0;		

[illegible][illegible]

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 (Passes 1 to 442)
 Authors
 Hillier, L., Clark, N., Dubuque, T., Ellstrand, G., Hawkins, M., Holman,
 R., Hultman, M., Kucaba, T., Le, M., Lennon, O., Matra, M., Parsons, J.,
 Rfkin, L., Rolffing, T., Soares, M., Tan, F., Trevaskis, E., Waterston,
 R., Williamson, A., Wilson, R., and Wilson, R.
 The Wasnu-Werck Est Project
 Unpublished (1995)
 Contact: Wilson RK

Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel.: 314 286 1800
Fax: 314 286 1810
Email: estevatson.wustl.edu
This clone is available royalty-free through INL; contact the
IMAGE Consortium (info@image.inl.gov) for further information.
Seq primer: m13 -40 forward
High quality sequence stop: 284.
Location/Qualifiers
I..442

```

127 a      102 c      71 g      142 t
BASE COUNT
ORIGIN
/organism="Homo sapiens"
/db_xref="GDB:3390062"
/db_xref="taxon:9606"
/clone_image="281686"
/clone_id="Soares_multiple_sclerosis_2NBHSP"
/sex="male"
/issue_type="multiple sclerosis lesions"
/dev_stage="Age 46"
/lab_host="DH10B (ampicillin resistant)"
/note="Vector: pT73D (Pharmacia) with a modified
polylinker V TYPE: phagemid; Site_1: Not I; Site_2: Eco RI
; 1st strand cDNA was primed with a Not I - oligo(dT)
primer [5'
TCTTACCACATCTGAAGTGAGCGGCCCATTTTTTTTTTTTTTTT 3']"
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of a modified pT73 vector
(Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by Bento
Soares and M. Fatima Ronaldo. RNA from 4 multiple sclerosis
lesions from one patient was kindly provided by Dr. Kevin
G. Becker (NINDS/NIH).
```

QY	1	GCTCTGTTTGATATTGAAGCAAGTG	27
Db	241	GCTCTGTTTGATATTGAAGCAAGTG	215

RESULT 13					
N64840/c					
LOCUS	N64840				
DEFINITION	yz31h07.s1 Soares multi-iso	452 bp			
		mRNA	linear	EST 30-JAN-1997	

ACCESSION NUMBER: U01959
 VERSION: 1
 KEYWORDS: MEMBRANE ANTIGEN (HUMAN); mRNA sequence.
 SOURCE: EST. N64840.1 GI:1212669
 ORGANISM: human.
 Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 (Phases 1 to 452)
 Hillier, L., Lennon, G., Becker, M., Bonaldo, M.F., Chidwell, R.,
 Chissoe, S., Dietrich, W., Eick, J., Fennell, T., Gaitanaris, G.,

TITLE Generation and analysis of 280,000 human expressed sequence tags
JOURNAL Genome Res. 6 (9), 807-828 (1996)
MEDLINE 97044478
COMMENT Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway

Tel: 314 286 1800
 Fax: 314 286 1810
 Email: estewatson.wustl.edu
 This clone is available royalty-free through LINTL; contact the
 IMAG Consortium (info@image.jnl.gov) for further information.
 Insert Length: 759 Std Error: 0.00
 Seq primer: m13 -40 forward
 High quality sequence stop: 273.
 Location/Qualifiers
 1..452
 /organism="Homo sapiens"

```

BASE COUNT
ORIGIN
131 a
105 c
74 g
139 t
3 others

/ab_xref="GDB:3903229"
/db_xref="Eaton:9606"
/clone="IMAGE:284701"
/clone_id="Soares_multiple_sclerosis_2NBHMSp"
/sex="male"
/tissue_type="multiple sclerosis lesions"
/dev_stage="Age 46"
/lab_host="DH10B (ampicillin resistant)"
/note="Vector: pT73D (Pharmacia) with a modified
polylinker V_type: phagemid; Site_1: Not I; Site_2: Eco RI
primer 15'
TCCTACCATCTGGAAGTGGAGCCGCCCATTTTTTTTTTTTTTTT 3'}.
double-stranded cDNA was size selected, ligated to Eco RI
adapters (Pharmacia), digested with Not I and cloned into
(Pharmacia). Library went through one round of
normalization to a Cot = 5. Library constructed by Bento
Soares and M. Fatima Bonaldo. RNA from 4 multiple sclerosis
lesions from one patient was kindly provided by Dr. Kevin
G. Becker (NINDS/NIH)."
```

Db 241 GCTCTGTTGATTTGAAGCAAGTG 215

RESULT 14
LOCUS AT1768508 458 bp mRNA linear EST 20-DEC-1999
DEFINITION wh22g03.x1 NCI-CGAP_Kid1 Homo sapiens CDNA clone IMAGE:2381524 3'
Similar to gb:M9487 PROSTATE-SPECIFIC MEMBRANE ANTIGEN (HUMAN);,
mRNA sequence.

ACCESSION AT1768508
VERSION AT1768508.1 GI:5235017
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 458)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapb-remail.nih.gov
Tissue procurement: Christopher Mokaluk, M.D., Ph.D., Michael R.
Emmert-Buck, M.D., Ph.D.
CDNA Library Preparation: M. Bento Soares, Ph.D.
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
Insert length: 573 Std Error: 0.00
Seq primer: -40UP from Gibco.

FEATURES
Source Location/Qualifiers
1..458
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2381524"
/clone_lib="NCI-CGAP_Kid11"
/lab_host="DH10B"
/note="Organ: Kidney; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Plasmid DNA from the normalized library NCI-CGAP_Kid3 was
prepared, and ss circles were made in vitro. Following HAP
purification, this DNA was used as tracer in a subtractive
hybridization reaction. The driver was PCR-amplified cDNAs
from a pool of 5,000 clones made from the same library
(clonids 132376-132391, 1456007-1456775, and
1500552-1502855). Subtraction by Bento Soares and M.
Fatima Bonaldo."

BASE COUNT 134 a 99 c 74 g 151 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 458;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
|||||

Db 243 GCTCTGTTGATTTGAAGCAAGTG 217

RESULT 15
LOCUS AA897668 462 bp mRNA linear EST 07-APR-1998
DEFINITION oJ78cJ6.s1 Soares_NFL_T_GBC_S1 Homo sapiens CDNA clone
IMAGE:1504426 3' similar to gb:M9487 PROSTATE-SPECIFIC MEMBRANE
ANTIGEN (HUMAN);, mRNA sequence.

ACCESSION AA897668
VERSION AA897668.1 GI:3034282
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

REFERENCE 1 (bases 1 to 462)
AUTHORS NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
JOURNAL Unpublished (1997)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cgapb-remail.nih.gov
This clone is available royally-free through LLNL; contact the
IMAGE Consortium (info@image.llnl.gov) for further information.
Trace considered overall poor quality
Seq primer: -40m3 fwd. ET from Amersham
High quality sequence stop: 1.

FEATURES
Source Location/Qualifiers
1..462
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:1504426"
/clone_lib="Soares_NFL_T_GBC_S1"
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/note="Organ: pooled; Vector: pT73D-Pac (Pharmacia) with
a modified polylinker; Site_1: Not I; Site_2: Eco RI;
Equal amounts of plasmid DNA from three normalized
libraries (fetal lung NbHL9W, testis NHT, and B-cell
NCI-CGAP GC81) were mixed, and ss circles were made in
vitro. Following HAP purification, this DNA was used as
tracer in a subtractive hybridization reaction. The driver
was PCR-amplified cDNAs from pools of 5,000 clones made
from the same 3 libraries. The pools consisted of
I.M.A.G.E. clones 297480-302087, 682632-687239,
726408-728711, and 729096-731399. Subtraction by Bento
Soares and M. Fatima Bonaldo."

BASE COUNT 135 a 111 c 80 g 136 t
ORIGIN

Query Match 100.0%; Score 27; DB 9; Length 462;
Best Local Similarity 100.0%; Pred. No. 0.61;
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCTCTGTTGATTTGAAGCAAGTG 27
|||||

Db 229 GCTCTGTTGATTTGAAGCAAGTG 203

Search completed: April 14, 2003, 15:28:56
Job time : 830.5 secs

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